ViewSonic®

ViewBoard 2.0 Software

User Guide

Thank you for choosing ViewSonic

With over 25 years as a world leading provider of visual solutions, ViewSonic is dedicated to exceeding the world's expectations for technological evolution, innovation, and simplicity. At ViewSonic, we believe that our products have the potential to make a positive impact in the world, and we are confident that the ViewSonic product you have chosen will serve you well.

Once again, thank you for choosing ViewSonic !

ViewSonic®

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1. Introduction

ViewBoard 2.0 is an interactive whiteboard software which is based on interactive touch operation. The software is suitable for smart panel classroom teaching, which provides whiteboard functions such as writing, erasing, notation, drawing and roaming. It also fully integrates smart panel interactive multimedia functions, providing powerful interactive teaching and displaying experiences such as sub-subject teaching tools and multimedia demonstration.

Friendly user interface, convenient operating experience, and various subjects' scenes are all outstanding parts of ViewBoard 2.0 software.

- Convenient operation experience. Navigation map is convenient for user positioning page, toolbar mobile with gestures convenient for user demonstration operation.
- Various subject scenes. Different subject is set with different subject scenarios, including English, Math, Chemistry, Physics, and etc. Different subjects provide different teaching tools, and user can apply different subject scenes for teaching according to the current subject.
- Convenient and practical presentation tools. Functions such as screen cover, spotlight, screen zooming, and annotation and etc., which enhances practicality and convenience of the software while inheriting traditional operation habit.
- Actual simulation of soft pen. Soft pen function provides feeling of simulating soft pen, and during writing process, user can present handwriting effect of different degree of thickness according to user's writing speed, to provide users better writing experience.
- Personalized custom settings. Users can customize settings for brush, eraser and canvas background according to need, fully meeting demonstration need from each detail.

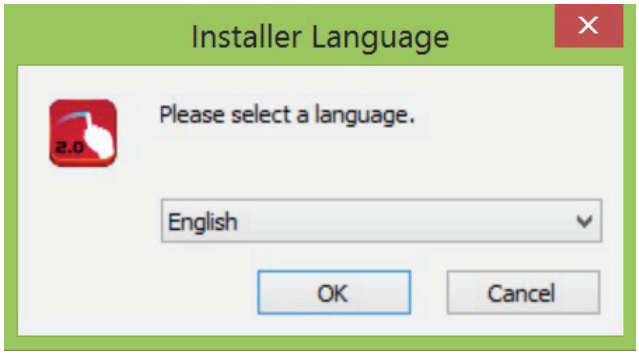
2. Installation Instructions

2.1 Operating Environment

- Windows XP/ 7/ 8 system
- .Net Framework 4.0 and later versions
- Microsoft Media 10.0 or above
- Microsoft Office 2007 and later versions

2.2 Software Installation

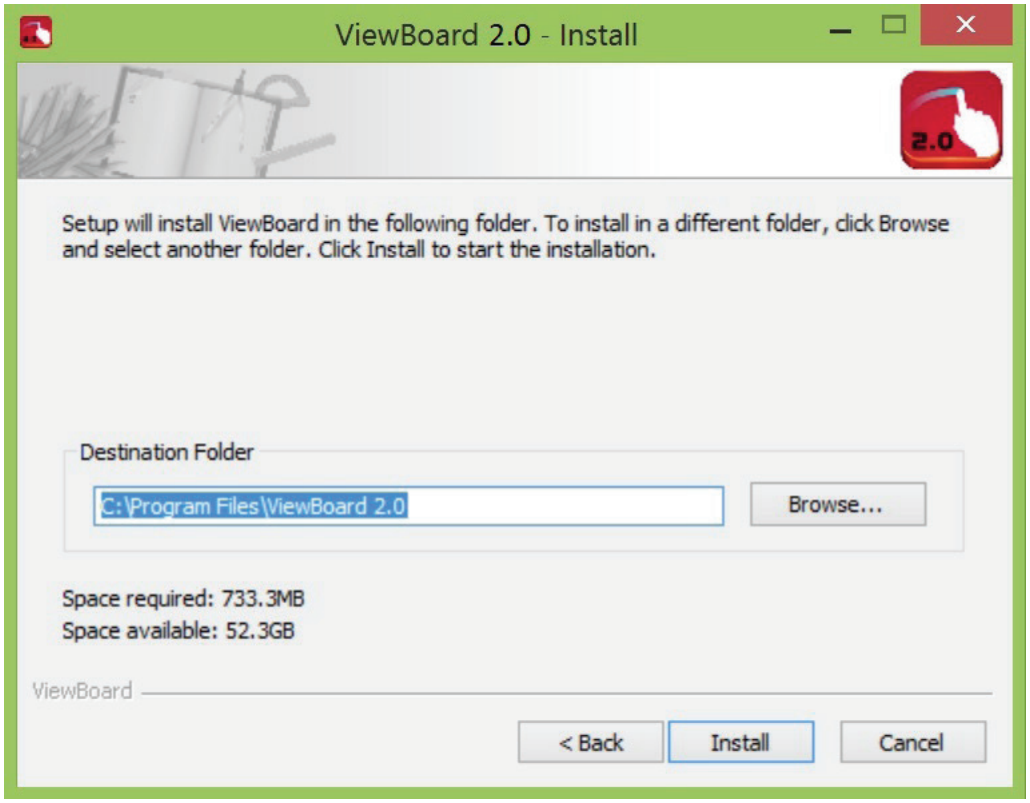
1. Select **ViewBoard 2.0.exe** – the application software installer. Double-click on the installer icon and a pop-up language selection dialogue box will appear.



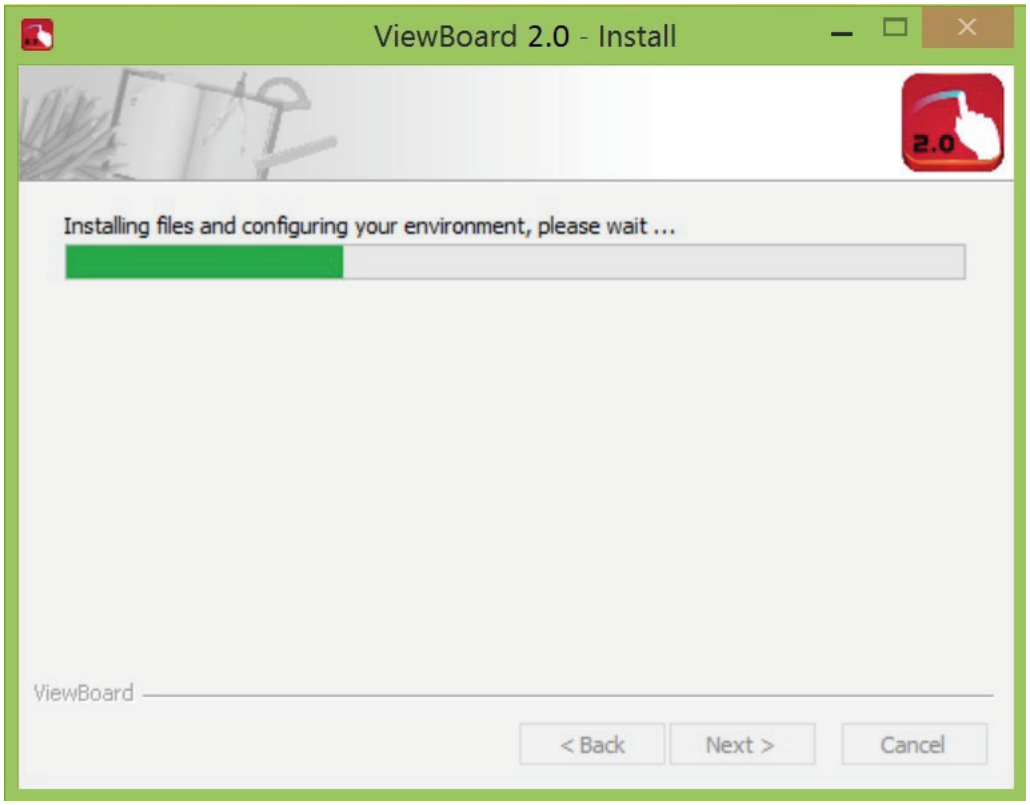
2. Select your language then click **OK** to begin extracting the software.
3. After the software is extracted, a pop-up screen will prompt you to continue.

   Click **Next** to continue with the installation.

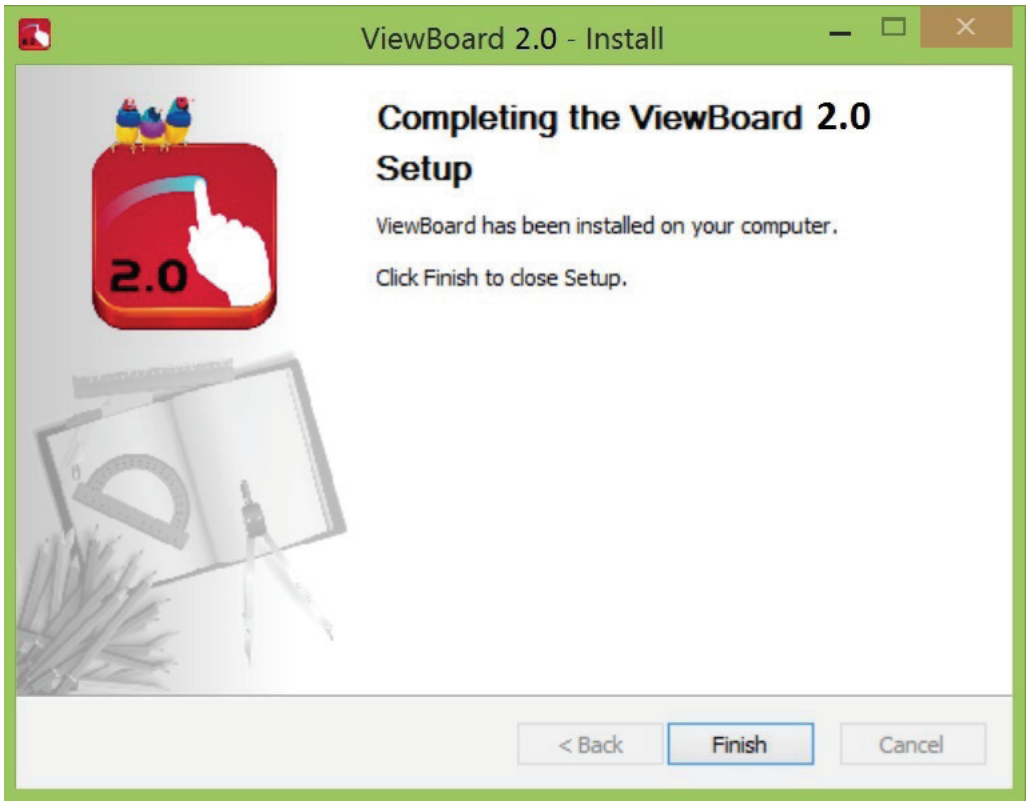
4. Click **Next** to begin installing the software, or click **Change** to choose a different destination folder path.



5. Click “Install” to enter to the install interface.



6. Once the “Installation Finished” screen appears, click **Finish** to exit the installation process.

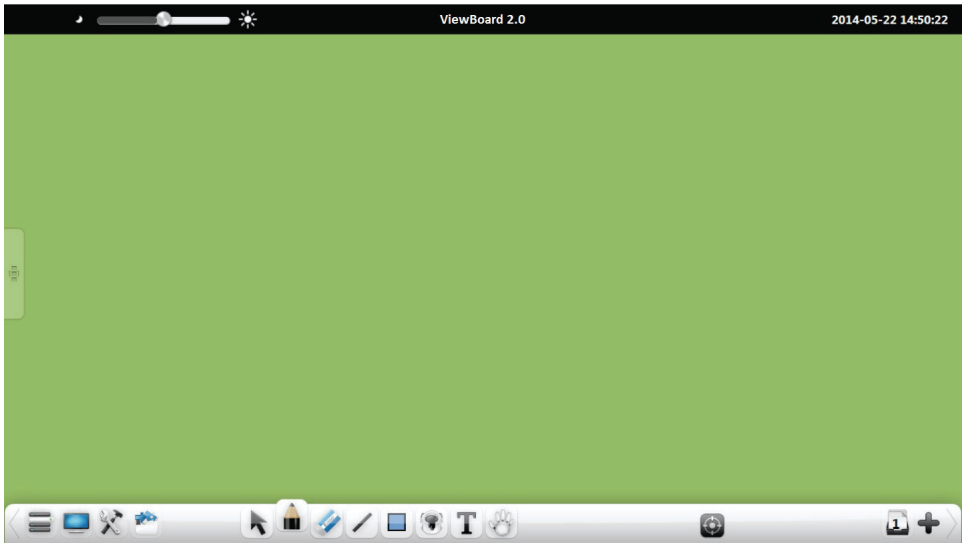


3. Using ViewBoard 2.0 Software

To start up the application, double-click the icon on the desktop screen or selecting ViewBoard 2.0 from the **Programs** drop-down list in the **Start** menu.

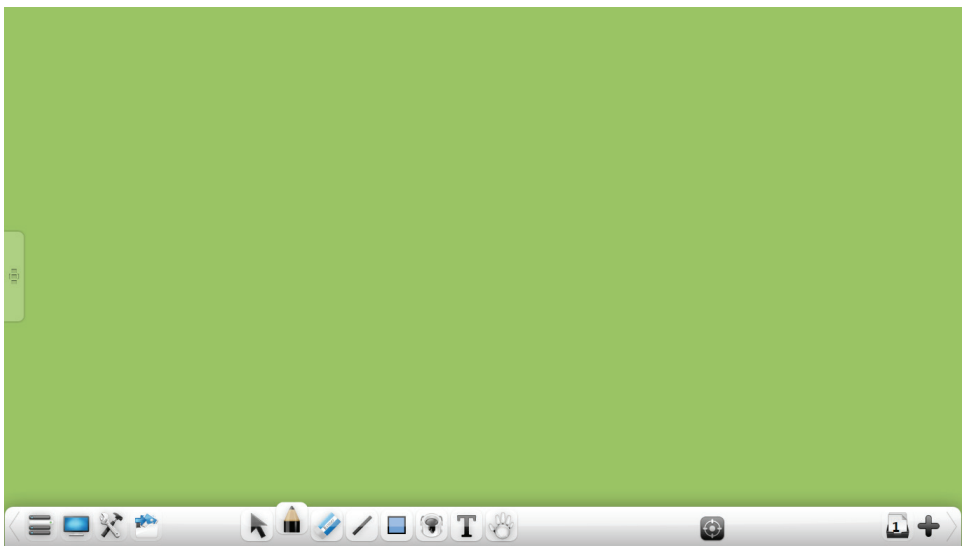
3.1 Screen Layout

In ViewBoard 2.0 interface, click mouse right key on top of interface, it can pop up auxiliary tool bar. Auxiliary tools, from left to right are: Brightness, Software name, Date. Drag screen brightness scroll bar to adjust screen brightness.

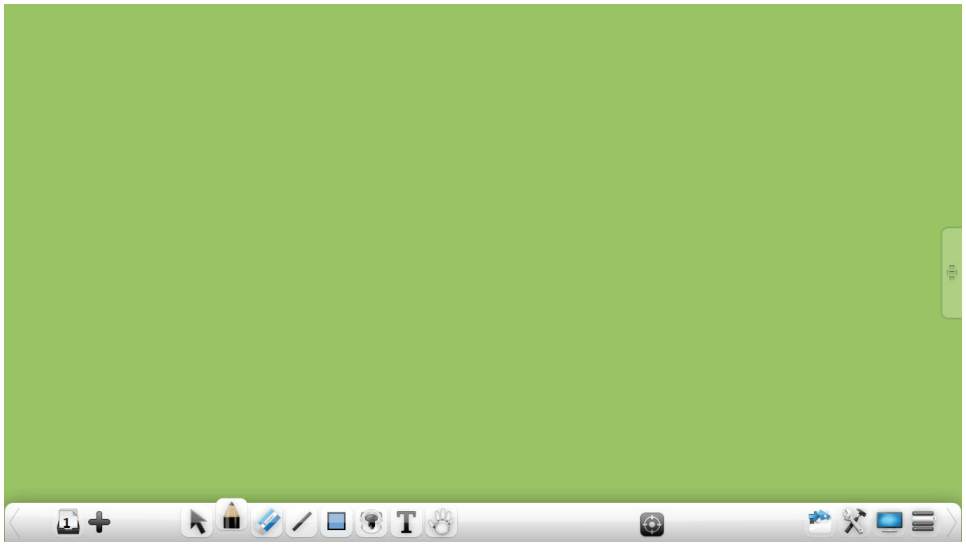


3.1.1 Toolbar

The toolbar functions from left to right are: Menu, Desktop, Toolbox, Resource Bank, Select, Pens, Erasers, Line, Graphic, Fill, Text, Cruise(Magnify, Minify, Rest), Cut, Copy, Paste, Roaming Map, Undo, Redo, Pre Page, Thumbnails, New Page, Next Page.

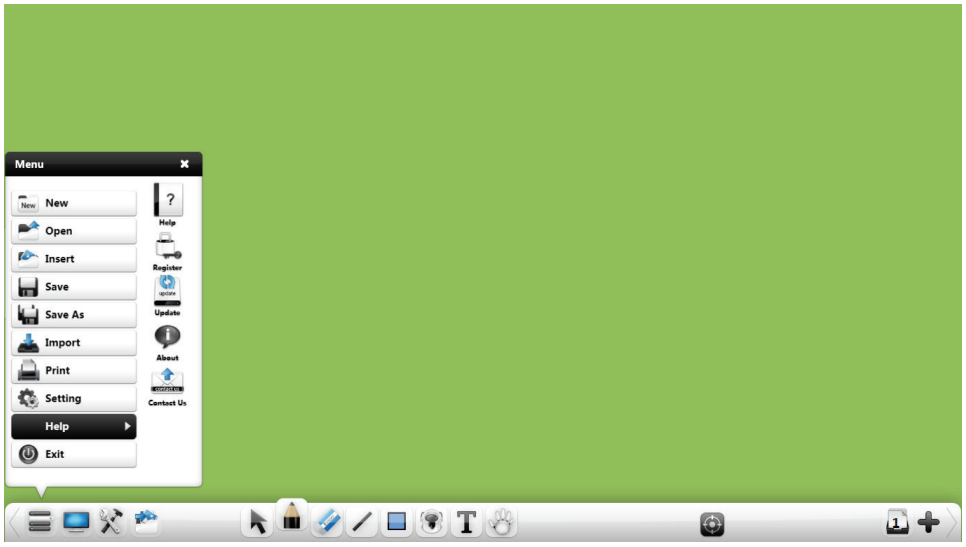


- Toolbar switching: Click 〈 or 〉 icon to switch the toolbar location.



3.1.1.1 Menu

Click to pop up drop-down menu. Drop-down menu provides users with function options such as New, Open, Insert, Save, Save As, Import, Print, Setting, Help and Exit.



(1) **New**: Click icon to create a new file.

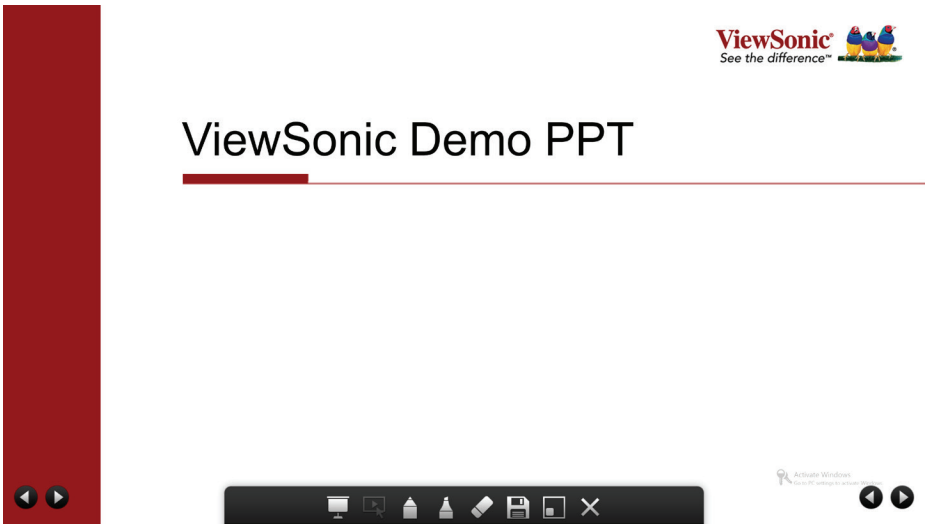
(2) **Open**: Click icon to open .enb format file.

(3) **Insert**: Click icon to insert content or link into current page.

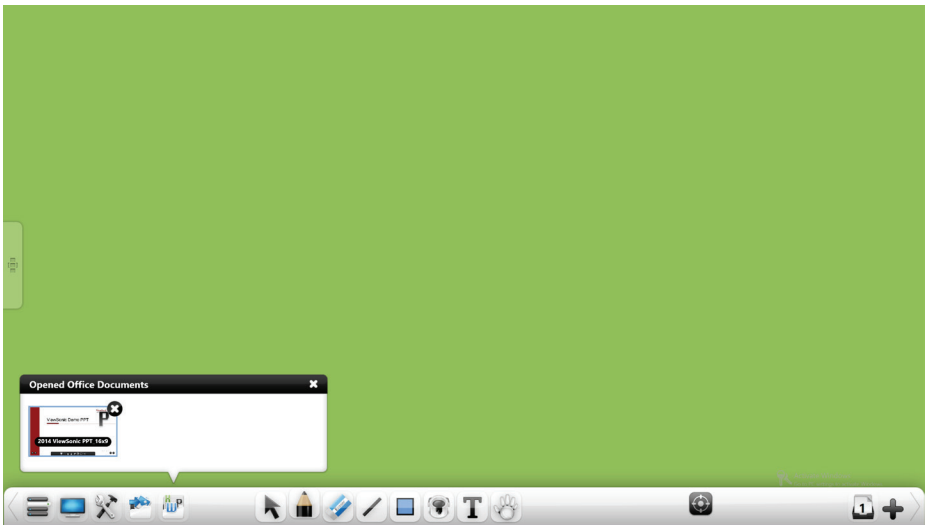
(4) **Save**: Click icon to save current document as software supported .enb format file by default.

(5) **Save as**: Click icon to save current document as *.enb, *.jpg, *.word, *.ppt, and *.pdf files.

(6) **Import**: Click icon to import word, ppt, excel, pic and txt into ViewBoard 2.0.

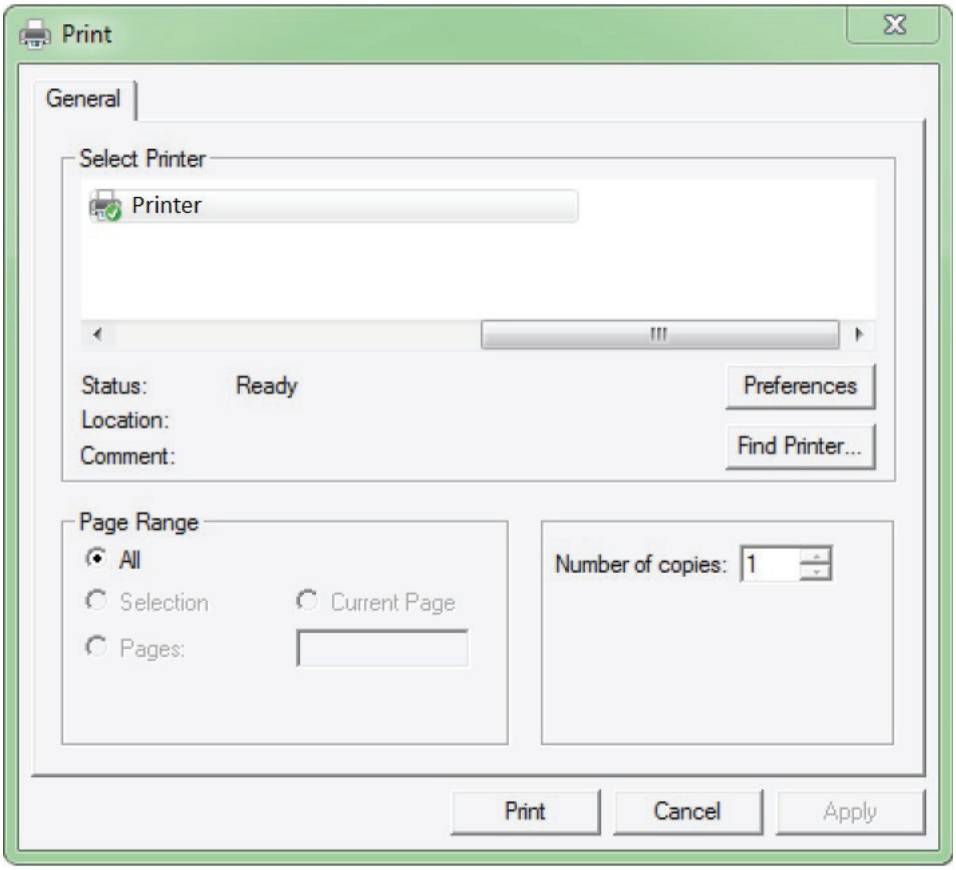


- Click to start or stop presentation. During presentation, you can click navigation buttons or on both sides to page up or down. Word and excel mode have no page up and down navigation buttons.
- Click to start or stop demo mode, and this button only appears in the mode of starting notation pen writing.
- Click to enable hard pen notation.
- Click to enable fluorescence pen notation.
- Click to select the eraser.
- Click to save the file.
- Click to switch into office file model or main menu, and narrow the file to toolbar in the form of thumbnail. Click to pop up thumbnail then click the document to return to office interface.

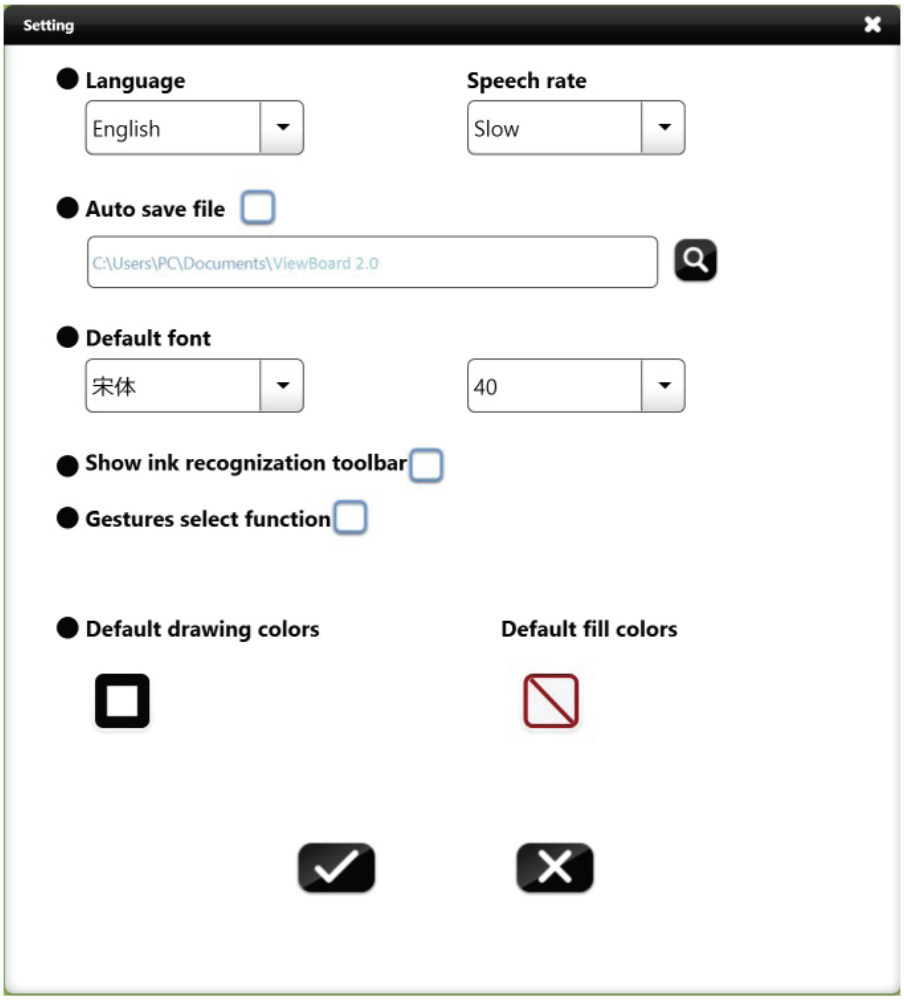


- Click to exit and go back to main menu.

(7) **Print**: Click to print the current document.



(8) **Setting**: Click icon to open ViewBoard 2.0 settings window. The window includes Language, Speech rate, Auto save file, Default font and size, Show ink reorganization toolbar, Gestures select function, Default drawing colors, Default fill colors.



- **Language**: There are 11 languages for selection.
- **Speech rate**: There are 7 speeds for selection.
- **Auto save file**: Enable or disable auto save function.
- **Default font**: Set the default font and size for text.
- **Show ink reorganization toolbar**: To synchronously show or do not show identification toolbar during use text handwriting function.
- **Gestures select function**: Enable or disable gestures function. If the function enable, ViewBoard 2.0 will close two-point writing function.
- **Default drawing colors**: There are 42 colors for selection.

- **Default fill colors**: There are 42 colors for selection.

(9) **Help**: Click icon to popup Flash version's ViewBoard 2.0 user manual.

- Click to register ViewBoard 2.0.(If the PC has connected with ViewSonic's smart white board, user don't need to register anymore).
- Click to update ViewBoard 2.0.
- Click to check ViewBoard 2.0 information.

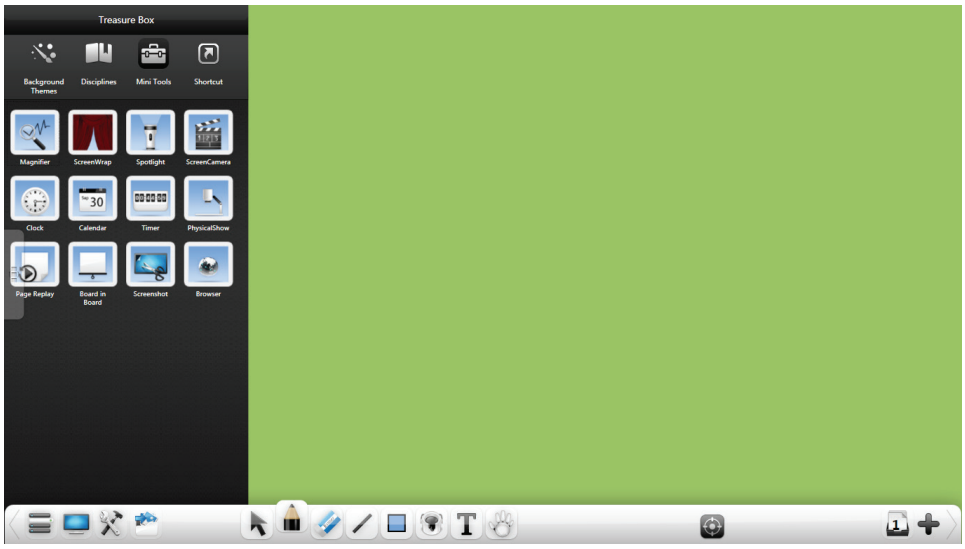
(10) **Exit**: Click to exit and close ViewBoard 2.0.

3.1.1.2 Switch to Desktop Mode

Click to switch to desktop mode, see 3.1.3 Desktop Mode for details.

3.1.1.3 Tools

Click to pop up Treasure Box, including Background Themes, Disciplines, Mini Tools and Shortcut.

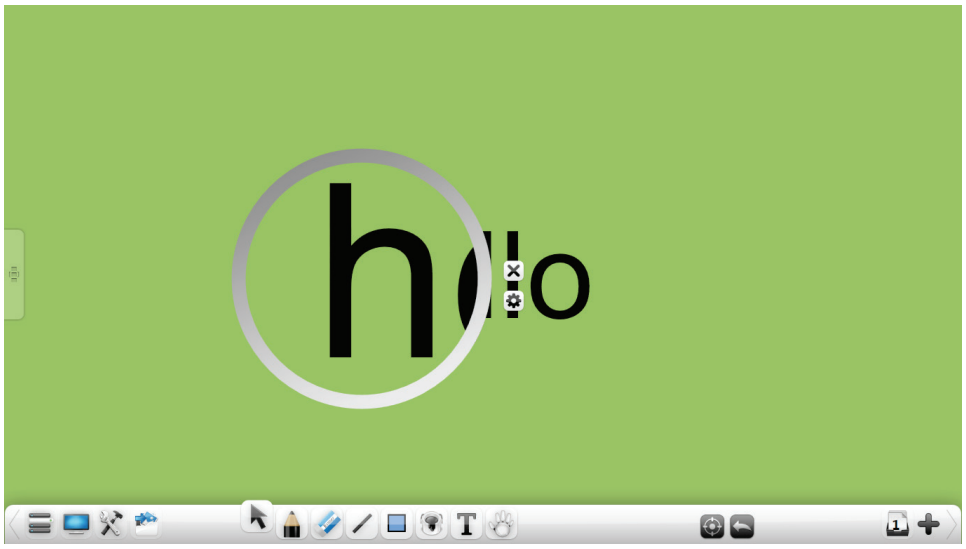


(1) Background Themes: There are 5 types for selection.

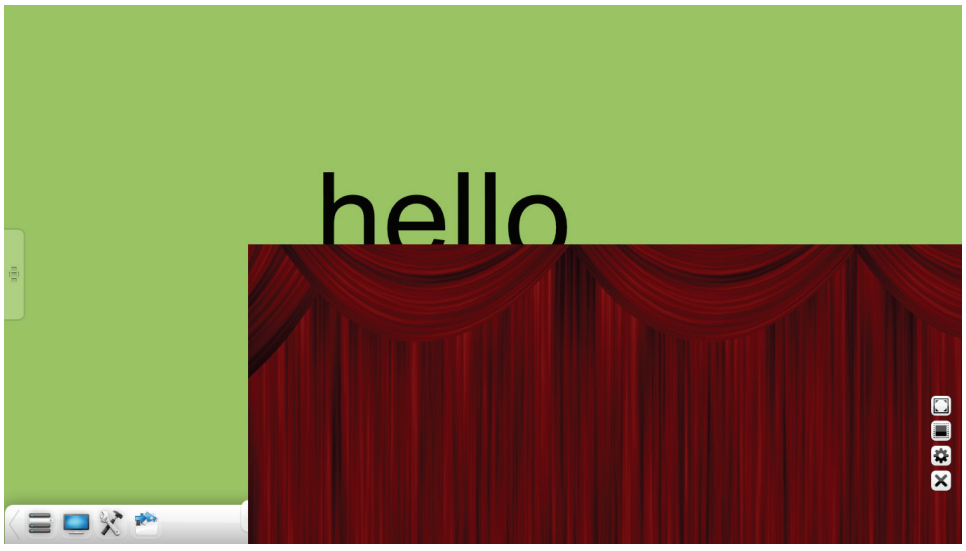
(2) Disciplines: There are 3 objects for selection.

(3) Mini Tools

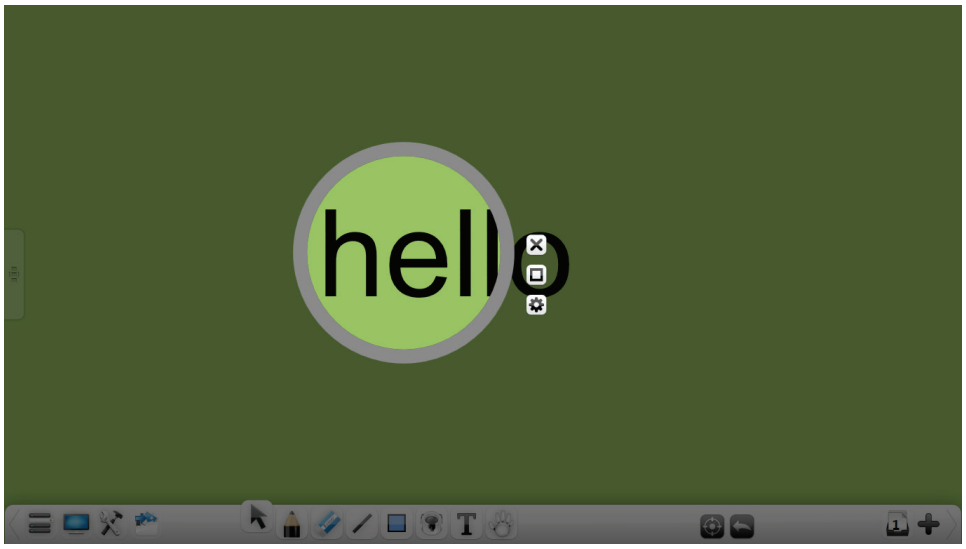
- Magnifier: Click to open magnifier. Click to set zooming ratio.



- **Screen Wrap**: Click to open screen wrap tools. When the curtain is moved or rectangle is specified, it will appear icon, and clicking this icon will reset curtain full screen. Click to customize curtain size. Click to select local image as the curtain.

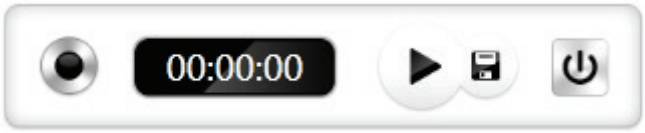


- **Spotlight**: Click to open spotlight. Spotlight can be used to shift focus of the audience to emphasized position.

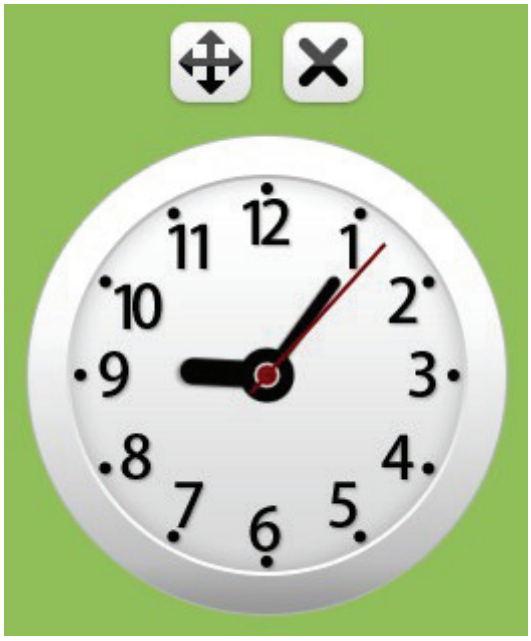


① Drag the black area can move position of the spotlights emphasized.
② Click edge of spotlights to adjust its scope.
③ Click to change spotlight shape into rectangular, and click to change spotlight scope back into circular.
④ Click to set transparency.

- **Screen Camera**: Click to open screen camera tools. Buttons from left to right are start/stop, play, save and close buttons. Recorded video is saved as wmv format, click play button to play the video file that just recorded after saved.

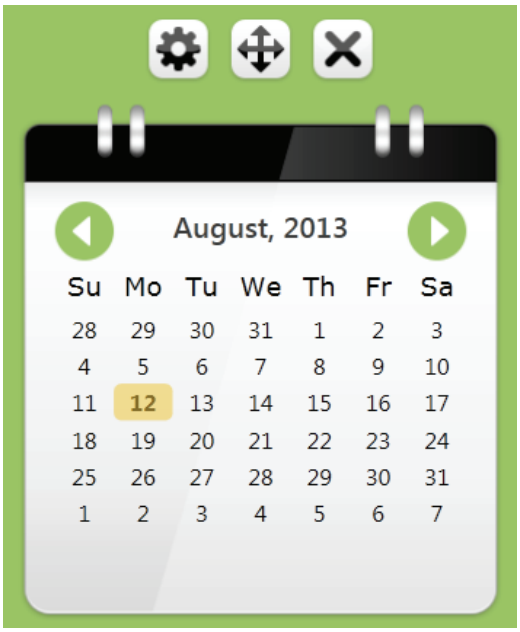


- **Clock**: Click to open the clock.

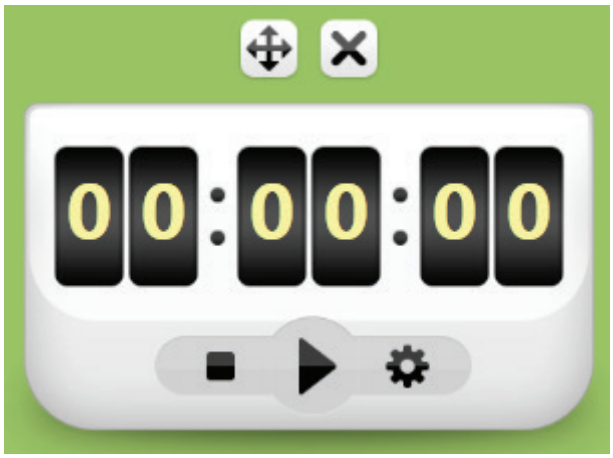


- **Calendar**: Click to open calendar.

Click to open the month view.



- **Timer**: Click to open the timer. By default, the timer number starts from 00:00:00, and click to set countdown time.



- **Physical Show**: Click to open physical booth, which can realize display, lock screen, rotate 90° left and right, full screen, return to actual size, screenshot, scaling, movement, notation, return, and shut down operations.

① Click to lock current displaying object of physical booth, click again to unlock.

② Click to rotate counterclockwise.

③ Click to rotate clockwise.

④ Click to display in actual ratio.

⑤ Click to display in full screen;

⑥ Click to shot current object into image and demonstrate in ViewBoard 2.0 interface. The picture after shooting will be automatically uploaded to main page. If you need to continue to use physical booth, it needs to re-open the tools;

⑦ Click to zoom in/out.

⑧ Click to move the object.

⑨ Click to make comments on current object, click to switch colors, including red, green, and blue.

⑩ Click to automatically correct objects, and remove the object background. It only scan object itself.

⑪ Click to automatically identify the page-turning operation, and continuous take photos of the pages.

⑫ Click return to standard mode.

⑬ Click to close the tool.

- **Page Replay**: Click to conduct page playback.

① Click to play.

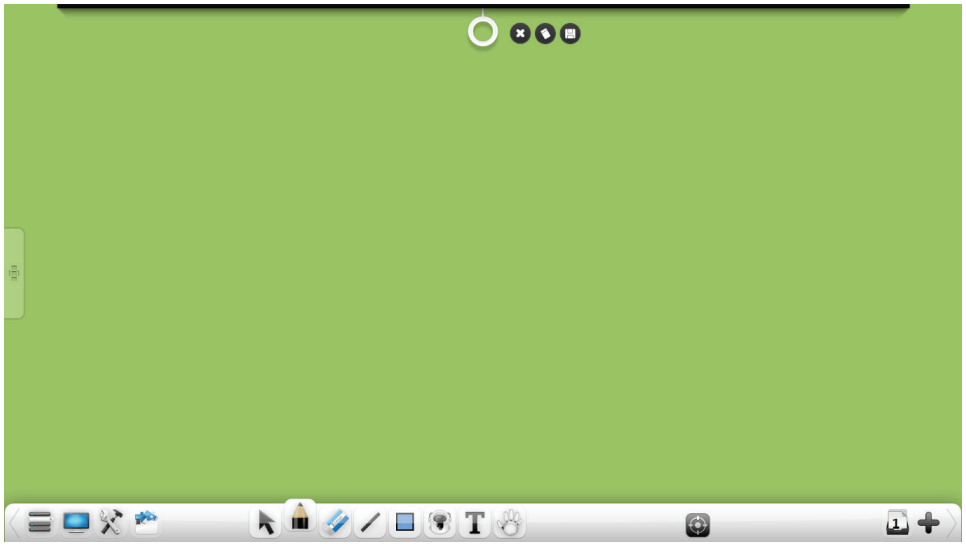
② Click to stop.

③ Click ×1 to change the speed.

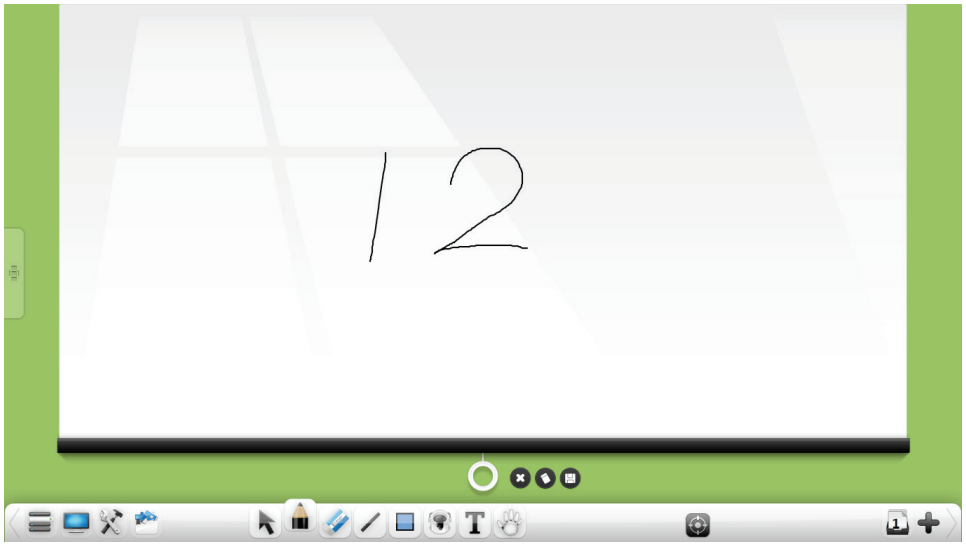
④ Click for loop.

⑤ Click to exit.

- **Board in Board**: Click to open the function.



① **Extend whiteboard**: Click white ring on top of page, dragging down the white board. If the whiteboard is dragged half distance of page, the white board can fix to the current position; If the whiteboard is dragged to a distance of less than half page, whiteboard will retract automatically, but will not close the function.



② **Writing**: Click to write on whiteboard. The handwriting's thickness and color cannot be changed.

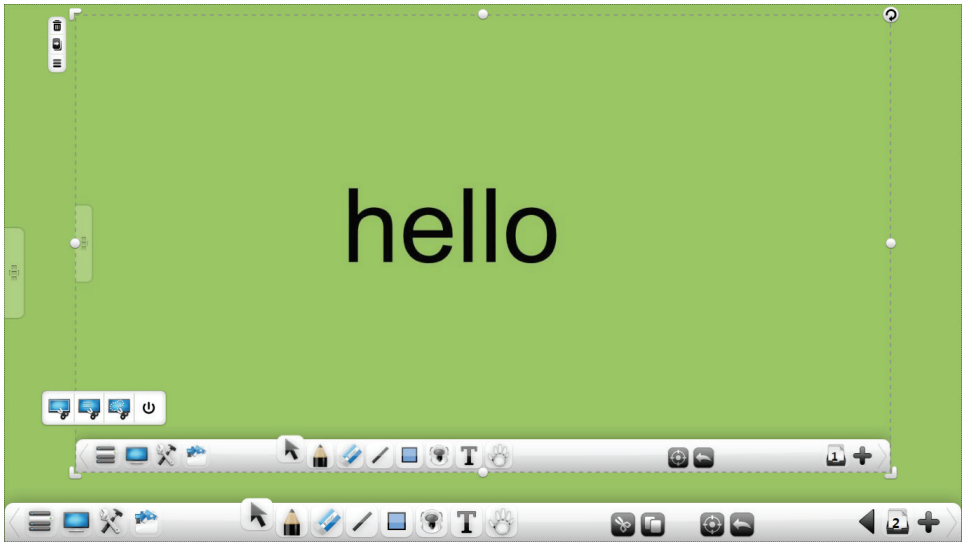
③ **Eraser**: Click to erase handwriting as required.

④ **Save**: Click to save the handwriting of current board panel as JPG format image.

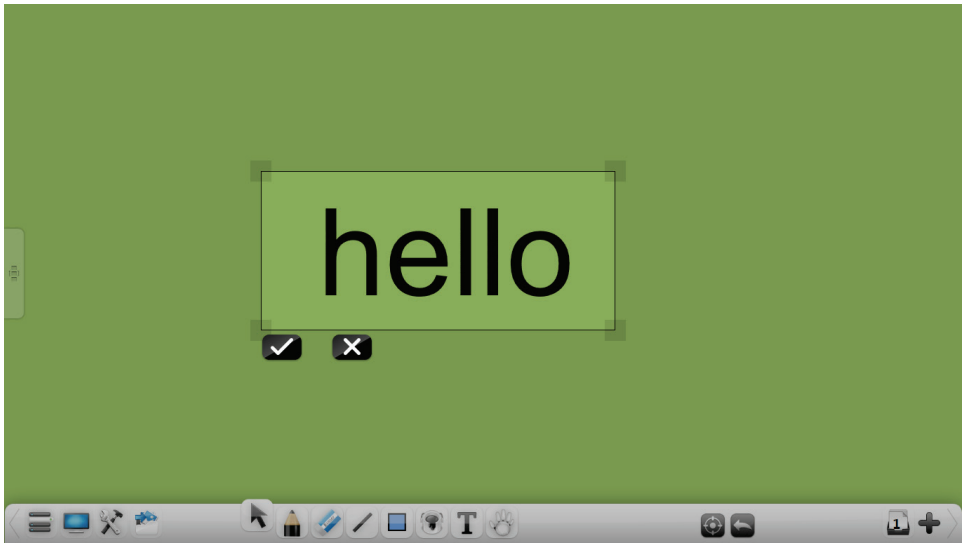
⑤ **Close**: Click to close board-in-board.

- **Screenshot**: Click to open screenshot tools.

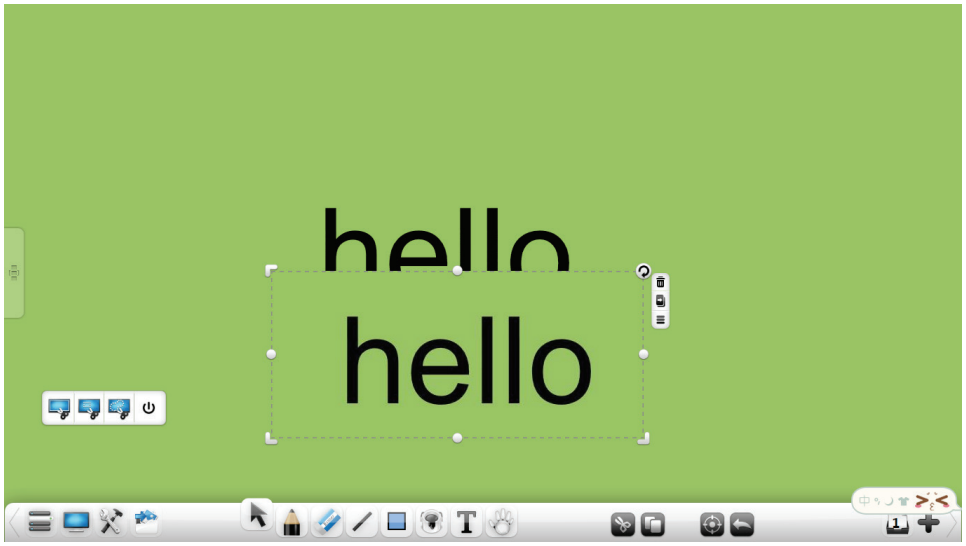
① Click directly for full screen screenshot, after clicking this button, it will automatically screenshot full-screen, and insert to current page as image.



② Click and drag a rectangle on page. It can arbitrarily adjust position and shape of the rectangular.



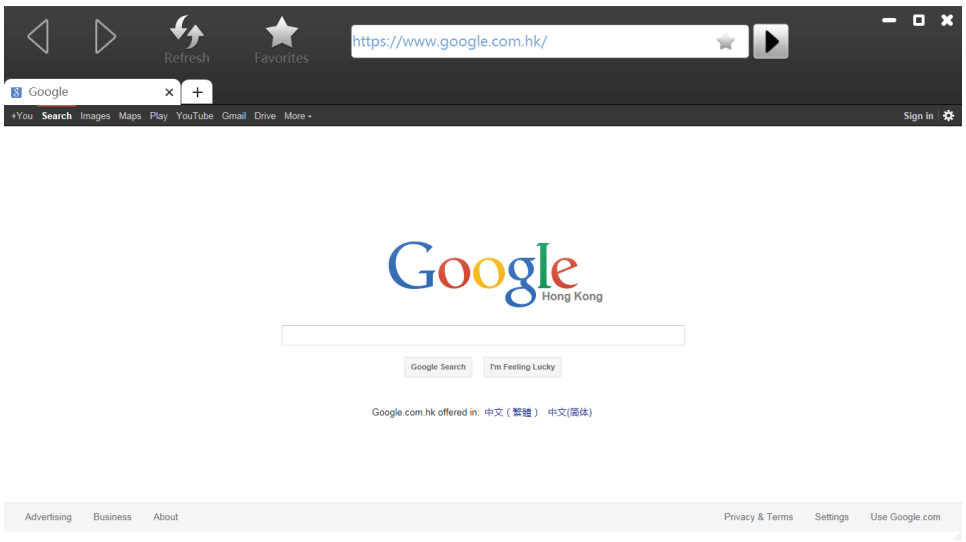
Click to inert screenshot into the page. Click to cancel screenshot.



③ Click to perform arbitrary free screenshot. Arbitrarily select required screenshot object. And screenshot will be automatically inserted into the page.

④ Click to close screenshot tools.

- **Browser**: Click button to open the browser, the default home page is http://www.google.com. The user can use this browser search and browse the resources.

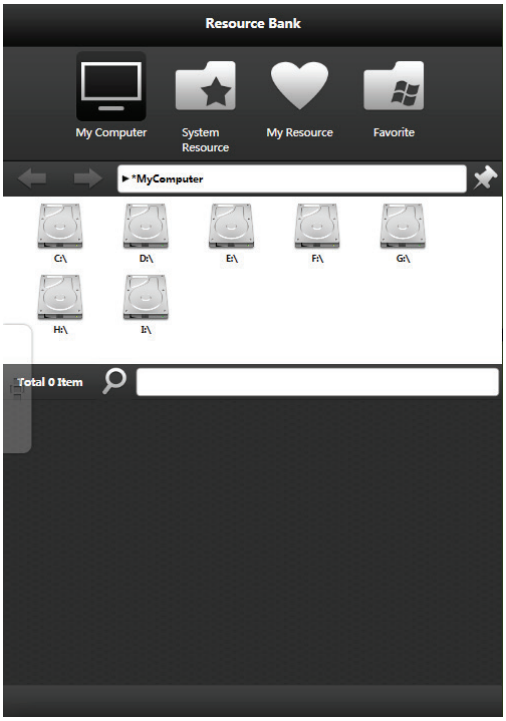


(4) Shortcut

Click the button to switch to the shortcut management interface, click the “Edit” button in the lower right, the user can add or delete shortcuts. Click the added shortcut, the user can quickly open the file.

3.1.1.4 Resource Bank

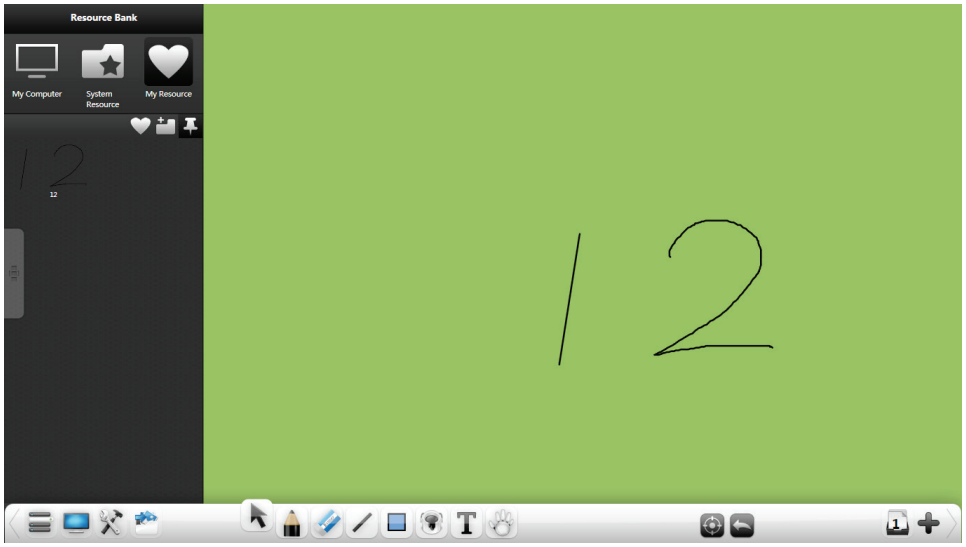
Click to pop up Resource Bank. "My Computer" is the default. In state of unlocking Resource Bank, during operation of dragging resources to page, Resource Bank will be hidden automatically.



- **My computer**: Click to browse computer disk resources. User can browse each disk and position to target demonstration folder →select demonstration resources required (handwriting, image, Flash, audio and video, etc.) →double click or drag resources to page for demonstration.

  Click or then user can select folder forward or backward.

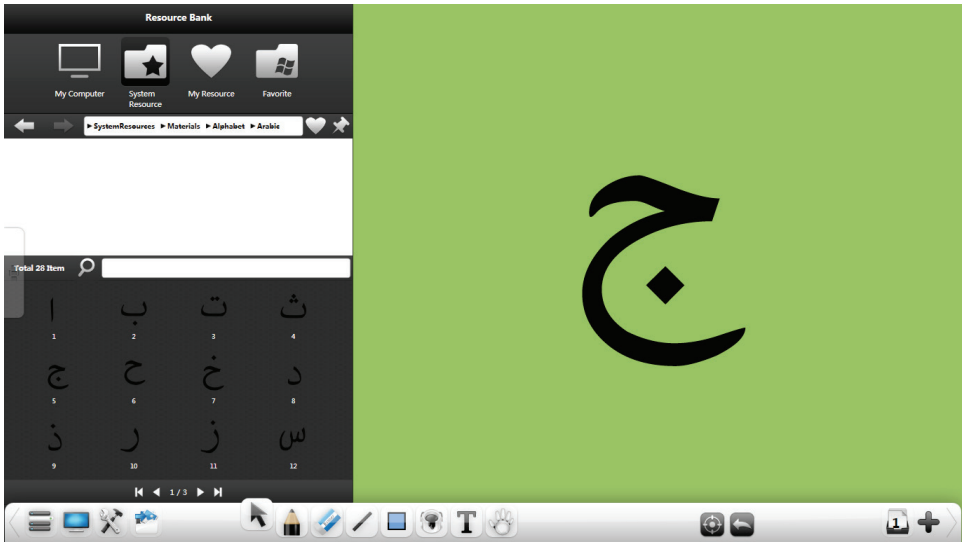
  Click to lock the current folder. Before unlocking, it is unable to operate other folders under the root directory, but it can operate other root directories, which means, my computer, My resources, desktop are locked without any links, with locking limited to each part.



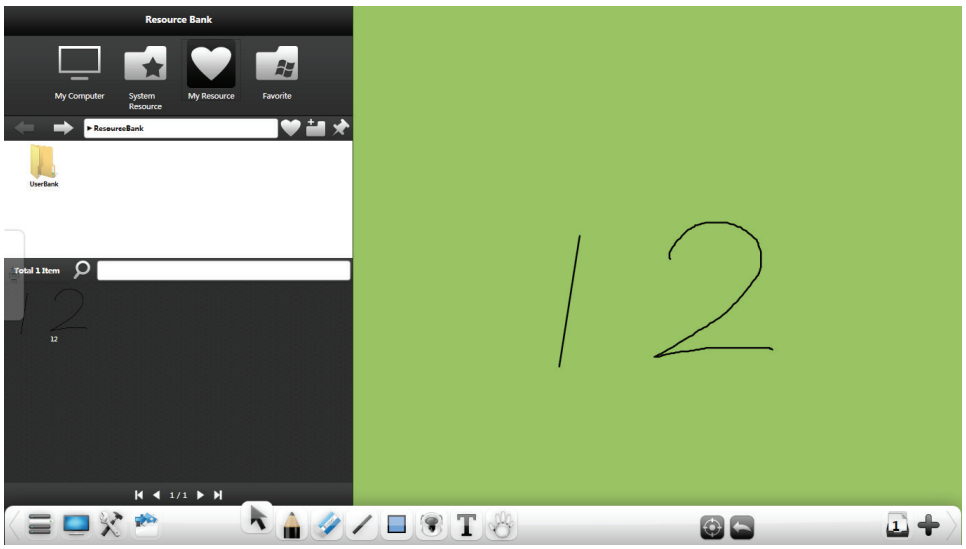
  Input resource name, and click to search related resources in the current folder.

- **System Resource**: Click to browse system resource. After installed the supported resource bank, the user can browse and locate to the required presentation grade disciplines folder→select demo resources→double-click or drag resources to demo page.

  Click address bar collection button, to add current folder path to the favorites, and users can browse collected documents in the favorites.

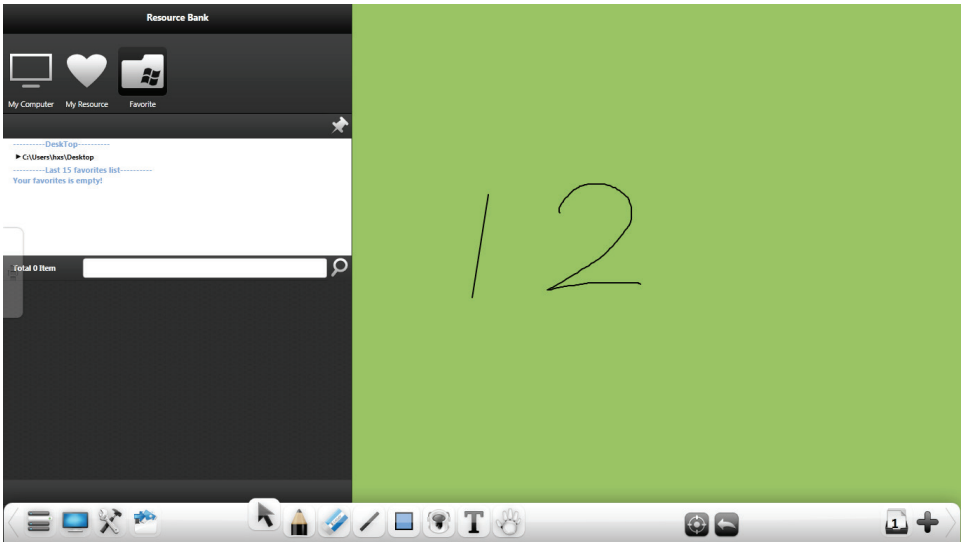


- **My Resource**: Click to browse resources that user adds to the repository on the page. If the user has added handwriting, written text, image, Flash, audio and video resources to particular folder of Resource Bank, the user can call put collected resources at any time through “My resources”.



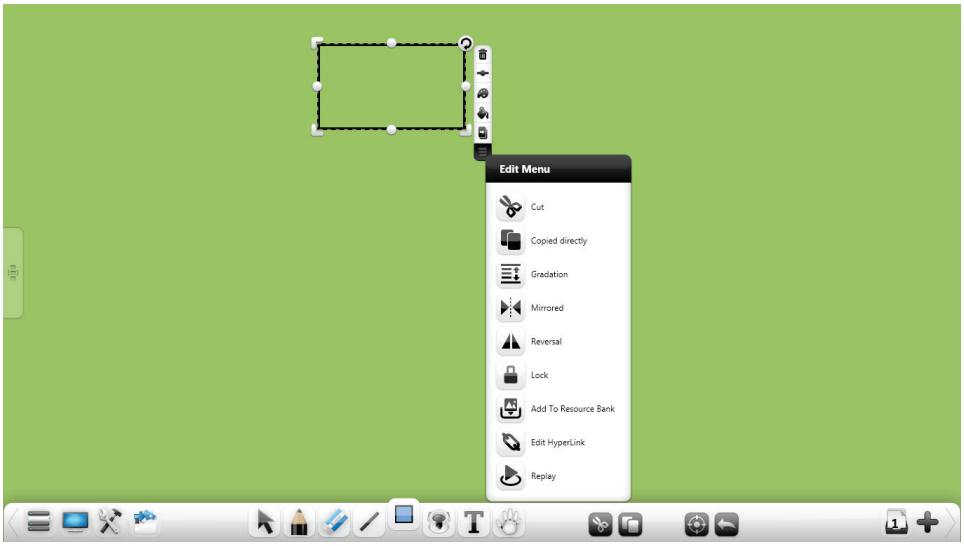
Click to create new folder in "My resources", the new folder can be renamed, but the default folder cannot be renamed.

- **Favorite**: Click to fast browse favorite resources. User can add the folder path that needs to be collected to the favorites, which include my desktop path, and the recent 15 records. This function is only effective to "My computer" and "My resources", and only when there is resource in the current path can it be added to the favorites.



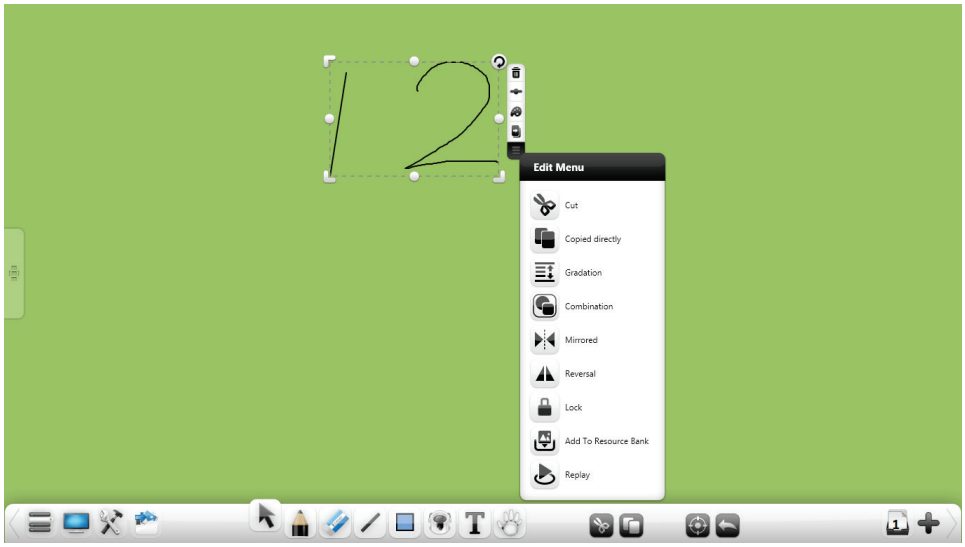
3.1.1.5 Selection

Click to realize following options by drawing a closed image or click on the selected interface: Moving, Scaling, Rotating, Deleting, Thickness setting, Color settings, Dragging cloning, Cut, Copy directly, Gradation, Combination (multiple objects), Mirrored, Reversal, Lock, Add To Resource Bank, Set Image As Background, Edit Hyperlinks, Replay, Export, Read Aloud, and etc..



(1) Handwriting

Select handwriting object to conduct operation of selected handwriting as Moving, Scaling, Rotating, Deleting, Thickness setting, Color settings, Dragging cloning, Cut, Copy directly, Gradation, Combination/Revoke Combination (multiple objects), Mirrored, Reversal, Lock, Add To Resource Bank, Edit Hyperlink, Replay.



- Click and drag the selected handwriting to move any position;
- Hold the , , or icon to realize object uniform scaling zooming operations respectively.
- Hold the icon on each side to realize object zooming operation in single direction.
- Click to rotate the currently selected handwriting.
- In multi-touch mode, it can directly realize operations of currently selected handwriting as moving, zooming, rotation and etc.
- Click to delete currently selected handwriting.
- Click to adjust thickness of currently selected handwriting.
- Click to adjust color of currently selected handwriting.
- Click to enter dragging clone mode.
- Click will pop up object editing menu.

① **Cut**: Click to cut currently selected handwriting.

② **Copied directly**: Click to copy currently selected handwriting, and paste it to lower right of the object.

③ **Gradation**: Click to pop up secondary menu, which can set the layer relationship of multiple objects.

④ **Combination**: Click to combine multiple objects.

⑤ **Revoke Combination**: Click to cancel the current combined objects.

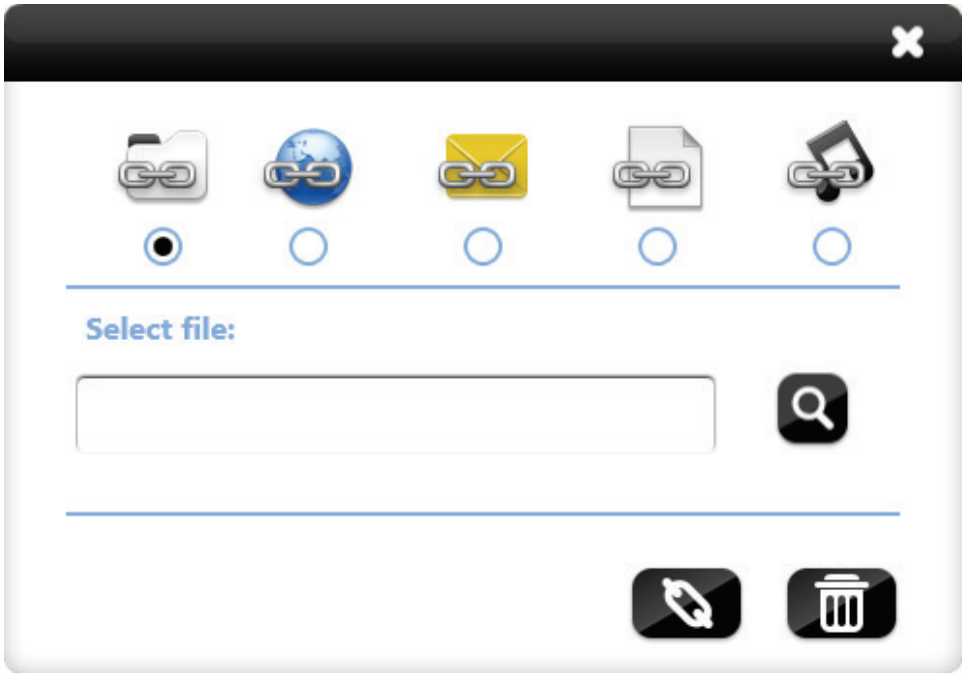
⑥ **Mirrored**: Click to turn the object of currently selected object vertical up/down, horizontal left/right.

⑦ **Reversal**: Click to turn the object of currently selected object up/down or left/right.

⑧ **Lock**: Click the button to lock the currently selected object. Click the locked button in the upper right corner to unlock.

⑨ **Add to Resource Bank**: Click to add currently selected handwriting to Resource Bank;

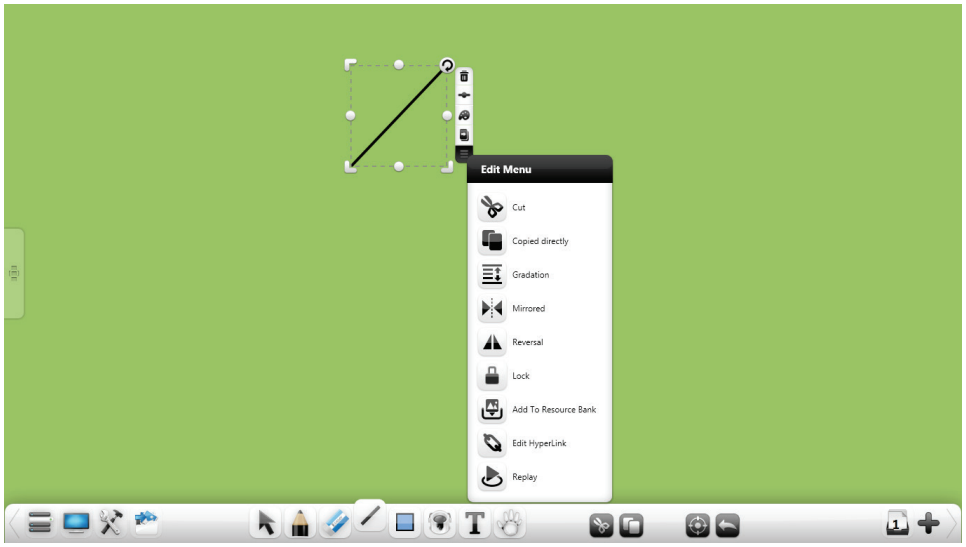
⑩ **Edit hyperlink**: Click to pop up window, which can create hyperlink for the currently selected handwriting object.



⑪ **Replay**: Click to playback the currently selected handwriting.

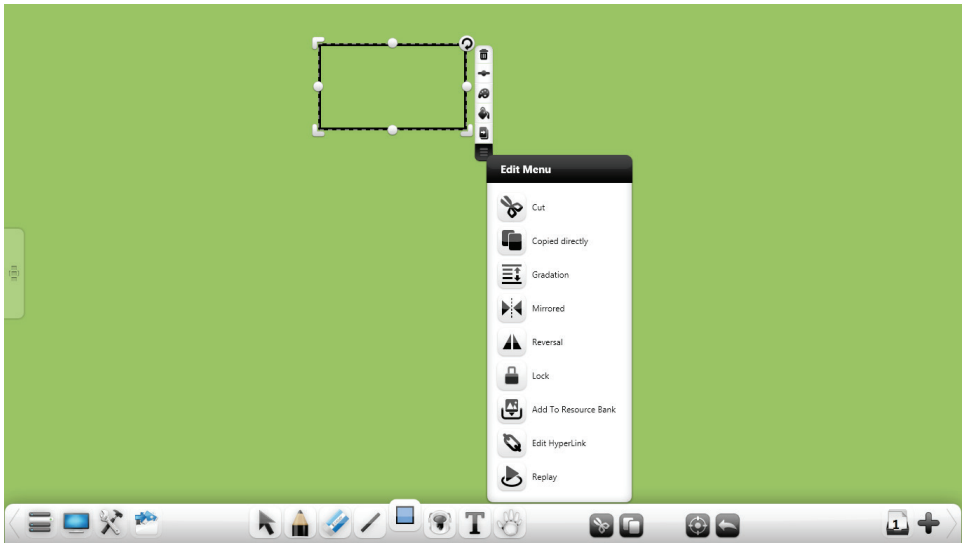
(2) Lines

Select line object to conduct operation of selected line as Moving, Scaling, Rotating, Deleting, Thickness setting, Color settings, Dragging cloning, Cut, Copied directly, Gradation, Combination, Mirrored, Reversal, Lock, Add To Resource Bank, Edit Hyperlinks, Replay.

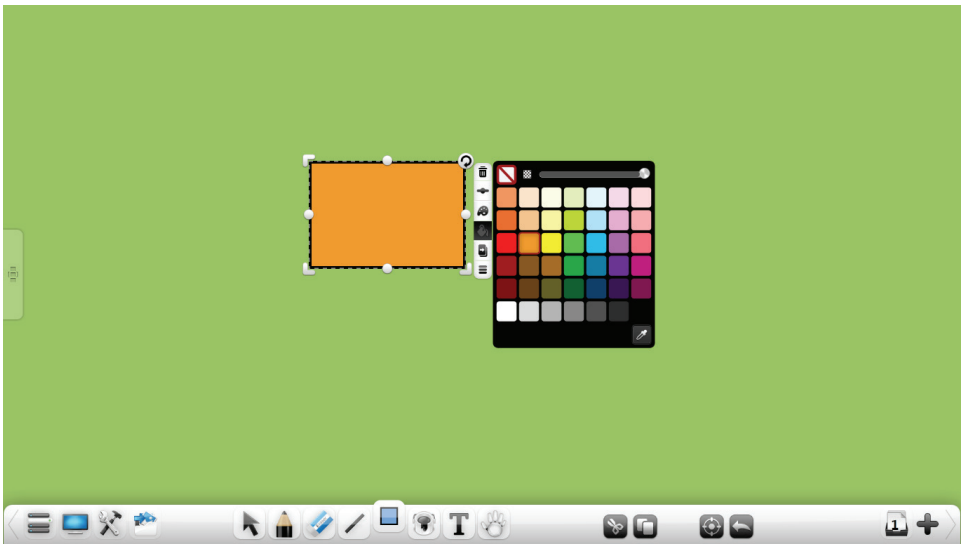


(3) Graphic

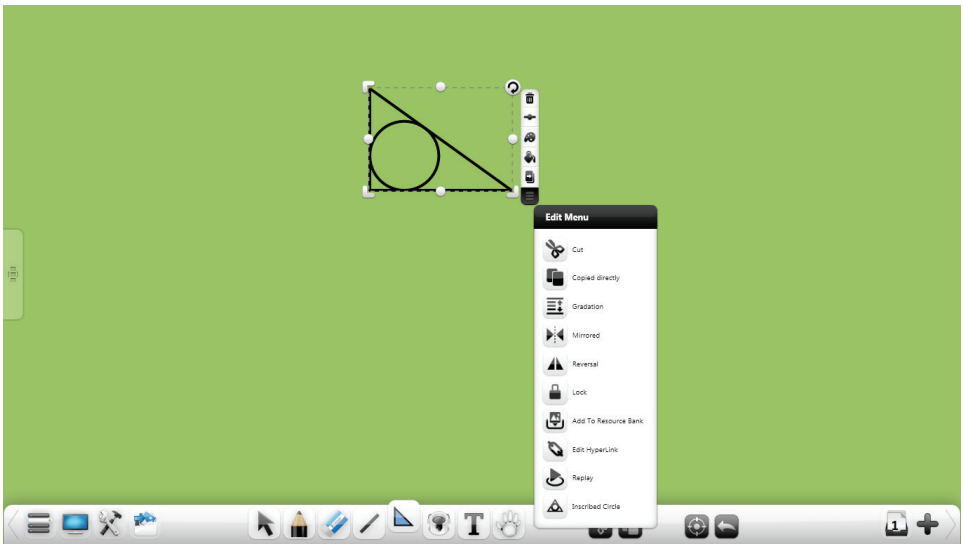
Select graphic object to conduct operation of selected graphic as Moving, Scaling, Rotating, Deleting, Thickness setting, Color settings, Dragging cloning, Cut, Copied directly, Gradation, Combination, Mirrored, Reversal, Lock, Add To Resource Bank, Edit Hyperlinks, Replay, Inscribed Circle, Center, Radius.



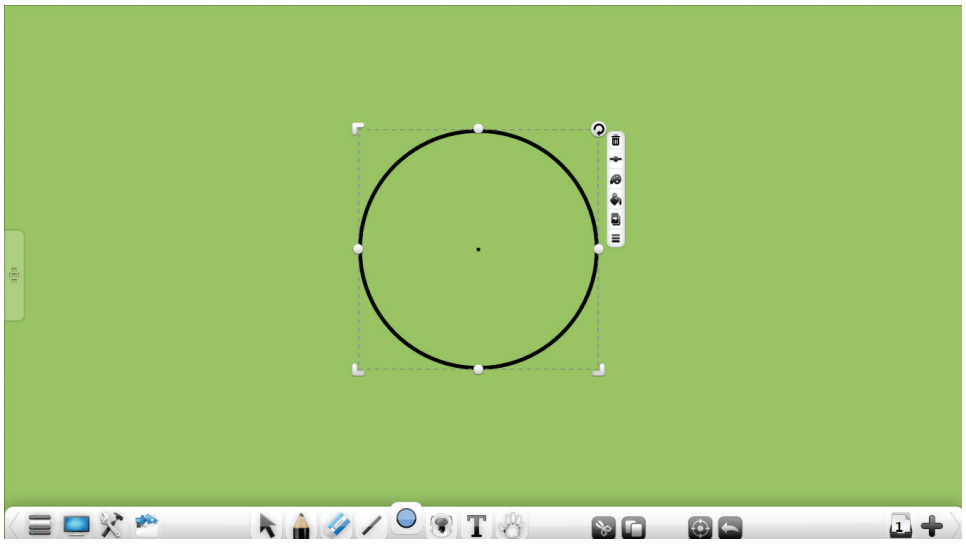
- Click to fill color for single image.



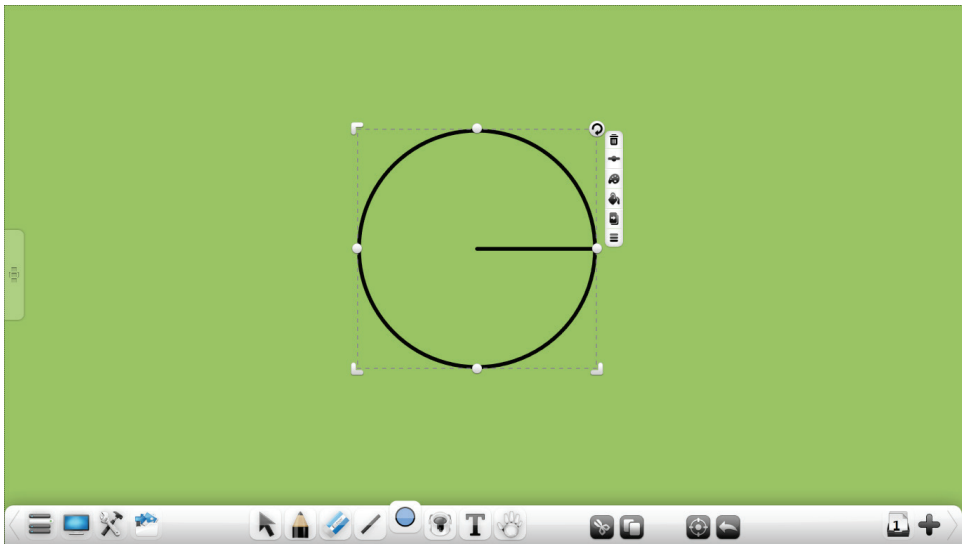
- Click to set the inscribed circle of the triangle.



- Click to display the center of the circle.

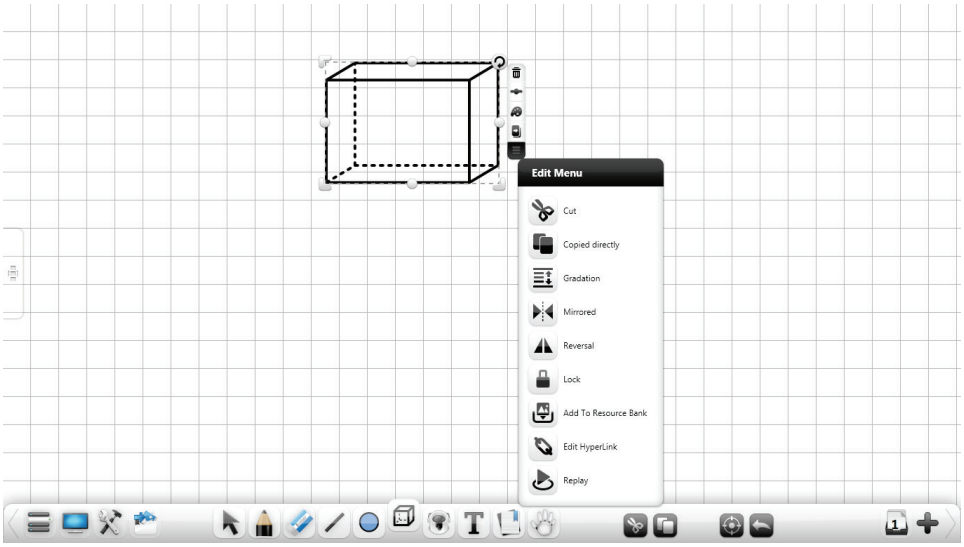


- Click to display the radius of the circle.



(4) 3D Figure

In Math Mode, select 3D Graphics object to conduct operation of selected 3D figure as Moving, Scaling, Rotating, Deleting, Thickness setting, Dragging cloning, Cut, Copied directly, Gradation, Combination, Mirrored, Reversal, Lock, Add To Resource Bank, Edit Hyperlinks, Replay.



(5) Text

Select text object to conduct operation of selected text as Moving, Scaling, Rotating, Deleting, Edit text, Dragging cloning, Cut, Copied directly, Gradation, Combination, Mirrored, Reversal, Lock, Add To Resource Bank, Merger, Edit Hyperlinks, Read Aloud, Replay.

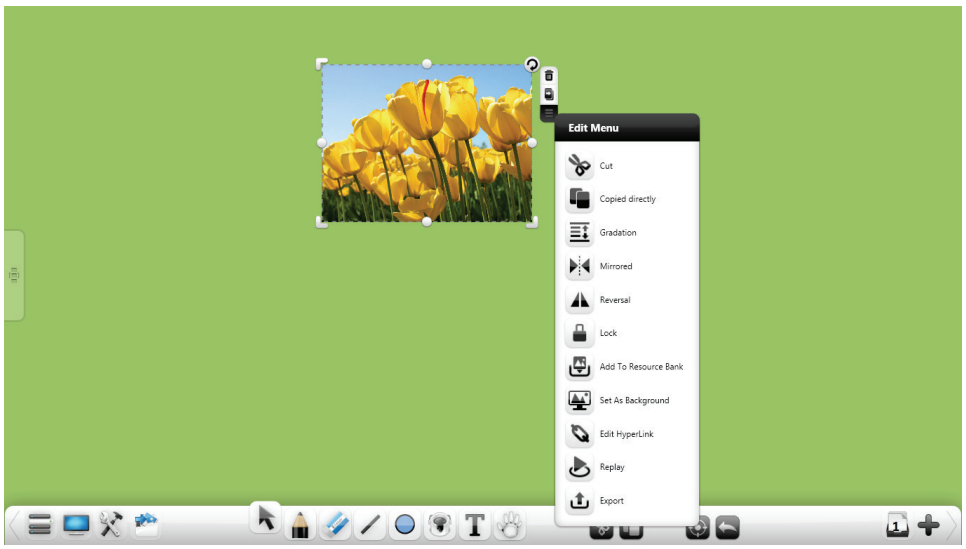
- **Edit text**: Click to edit the text.
- **Read Aloud**: Click to read the currently selected text. Under XP, there is no reading function.
- **Merger**: Click to combine the currently selected two groups (or more than two sets of texts), with the selected text automatic typesetting to the end of the first set of text.

  ① **Keep Source Formatting**: Click to keep their original text format.

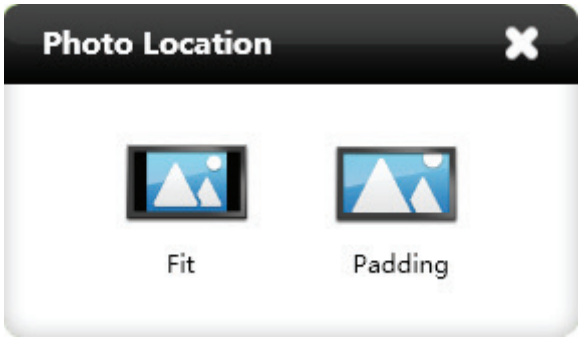
  ② **Combine Formatting**: Click button, the text formats such as font, size, and color are the same as the first set of text.

(6) Image

Select image object to conduct operation of selected image as Moving, Scaling, Rotating, Deleting, Dragging cloning, Cut, Copied directly, Gradation, Combination, Mirrored, Reversal, Lock, Add To Resource Bank, Set As Background, Edit Hyperlinks, Replay, Export.



- **Set As Background**: Click to set currently selected image as background image, with has two types can be selected.



- **Export**: Click to export the currently selected picture in its original format.

(7) Audio and Video

Select audio and video object to conduct operation of selected audio and video as Play, Pause, Dragging process bar, Sound adjustment, Moving, Scaling, Rotating, Screenshot, Deleting, Dragging cloning, Cut, Copied directly, Gradation, Combination, Mirrored, Reversal, Lock, Replay, Export.

- **Play**: Click to play.
- **Pause**: Click to pause.
- **Stop**: Click to stop.
- **Drag progress bar**: Drag audio and video playing progress bar, to customize playing position of audio and video.
- **Voice control**: Drag sound adjusting scroll bar, to adjust the volume.
- **Screenshot**: Click to insert screenshot image of current audio and video image into the page.

3.1.1.6 Writing

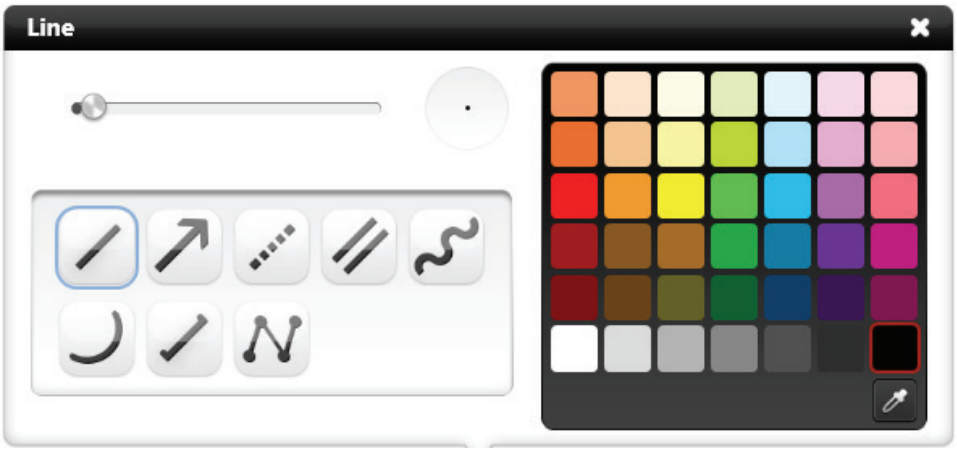
Click to open pen setting window. You can choose Hard Pen, Highlighter, Chinese Brush, Paint Brush, Laser Pen, Magic Pen and Texture Pen. You also can set Thickness and Color.

3.1.1.7 Eraser

Click to select eraser.

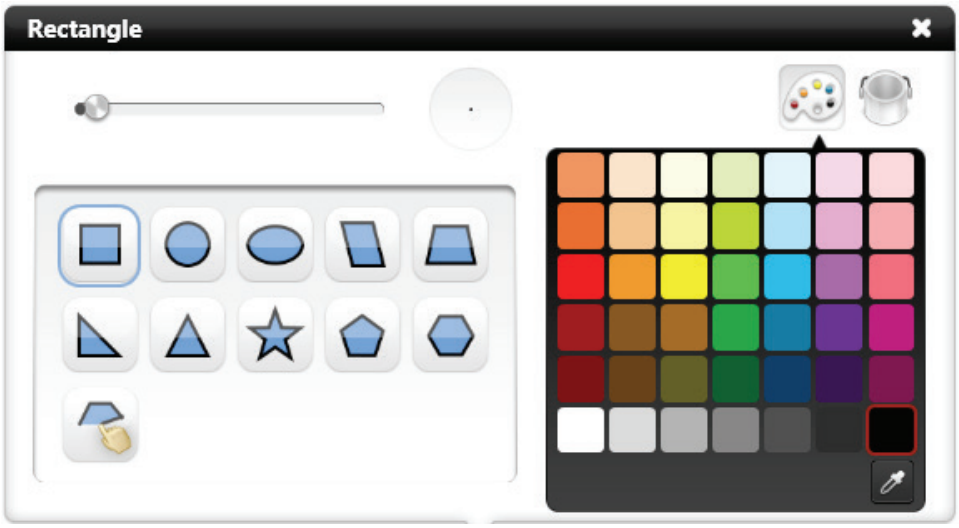
3.1.1.8 Lines

Click to pop up line window. You can choose Line, Arrow, Dotted Line, Parallel Line, Wave Line, Arc, Line Segment and Rubber Band. You can also set Thickness and Color.



3.1.1.9 Rectangle

Click to pop up image window. You can choose Rectangle, Circle, Ellipse, Parallelogram, Trapezoidal, Right Triangle, Triangle, Pentacle, Pentagons, Hexagon and Graphic Recognition. You can also set Thickness and Color.



3.1.1.10 Fill

Click to pop-up palette. Users can switch to filling color selection, and select filling color according to need. It can fill with any closed shape. The color plate has a total of 42 colors. At the same time, it provides the eyedropper tool, the user can according to the need to draw the color on the page or the color plate.

3.1.1.11 Text

Click to pop up text sub-menu including Text Edit and Recognition.

3.1.1.12 Cruise

After clicking button, click current page or objects to change the location. You can also use the function to rotate or change the object size.

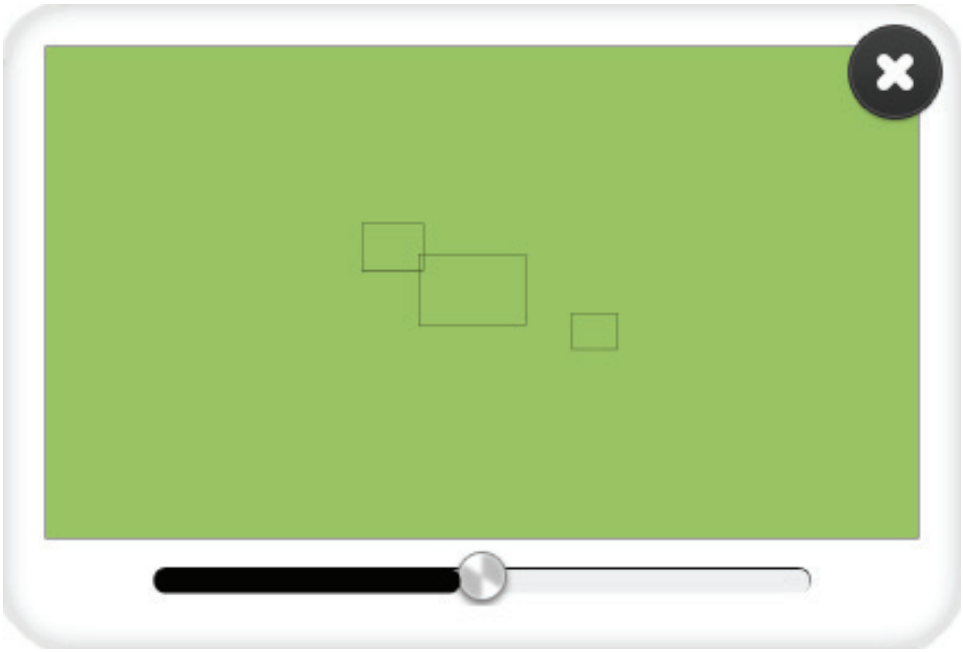
- **Magnify**: Click to zoom in.
- **Minify**: Click to zoom out.
- **Reset**: Click to reset the roaming or zoom back to original setting.

3.1.1.13 Cut/Copy and Paste

- Cut: Click to cut the object.
- Copy: Click to copy the object.
- Paste: Click to paste the object.

3.1.1.14 Navigation

Click button to show the navigation map.



3.1.1.15 Undo

Click to undo previous operation.

3.1.1.16 Redo

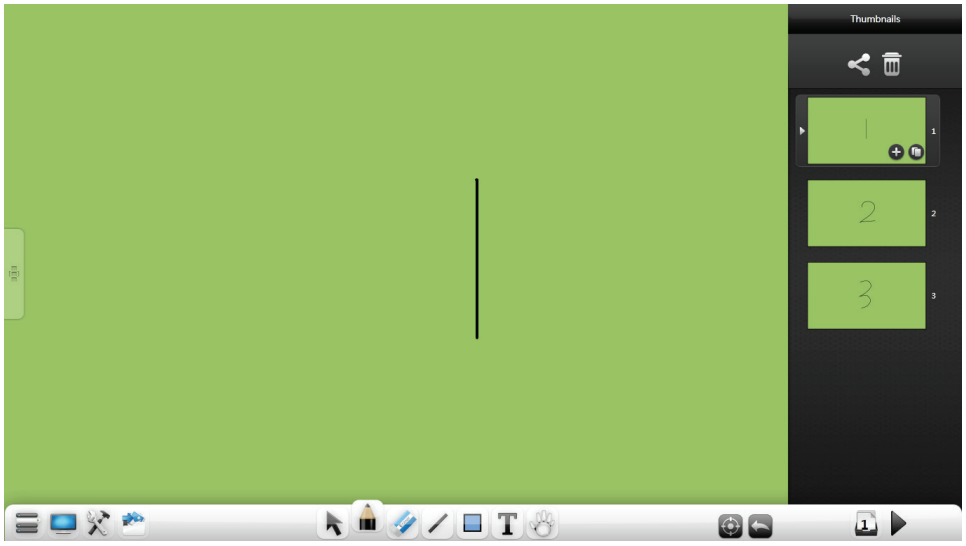
Click to restore previous operation.

3.1.1.17 Previous Page

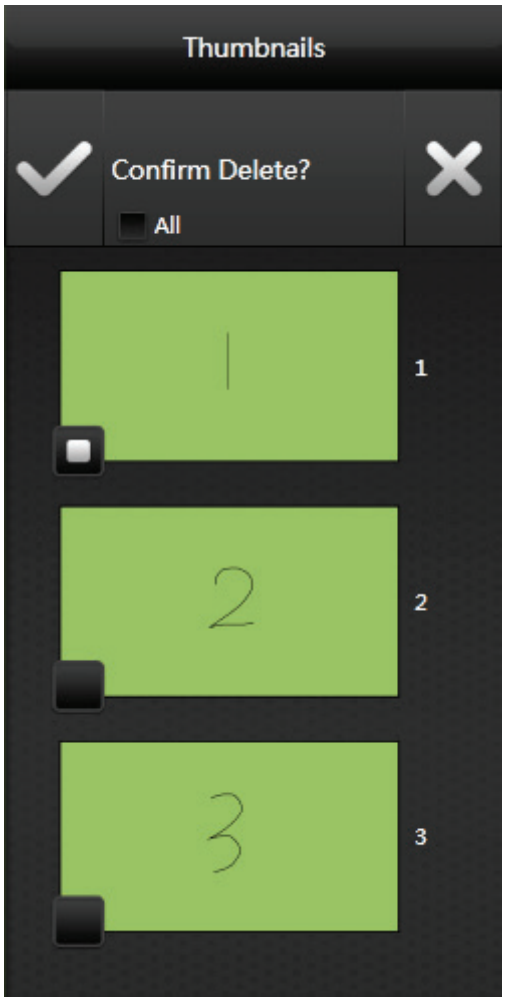
If current page is not the first page, click to switch to previous page.

3.1.1.18 Page Thumbnail

Click to view all file page information.



- **Delete page**: Click to delete page.



- **Add page**: Click to add a new page.
- **Copy page**: Click to copy current page to next page.
- **Move page**: Click and drag the page, the user can drag the currently selected page to another location.

3.1.1.19 Add Page

If the current page is the last page, click to add a new page.

3.1.1.20 Next Page

If the current page is not the last page, click to switch to next page.

3.1.2 Concise Mode

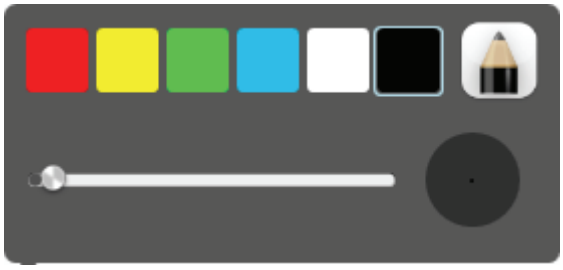
Locate at tool bar then click the mouse right key to change to concise mode. Concise mode only has functions of Fluorescent Pen, Hard Pen, Eraser and return to standard mode.

- **Stretch toolbar**: Click to stretch toolbar.
- **Fluorescent Pen**: Click to enter concise notation state. Fluorescent pen color is the same as that of the standard mode before switching.
- **Hard Pen**: Click to enter concise notation state. Hard pen color is the same as that of the standard mode before switching.
- **Eraser**: Click to erase writing and notation handwriting.
- **Return**: Click to return to standard mode.

3.1.3 Desktop Mode

Click to switch to desktop mode.

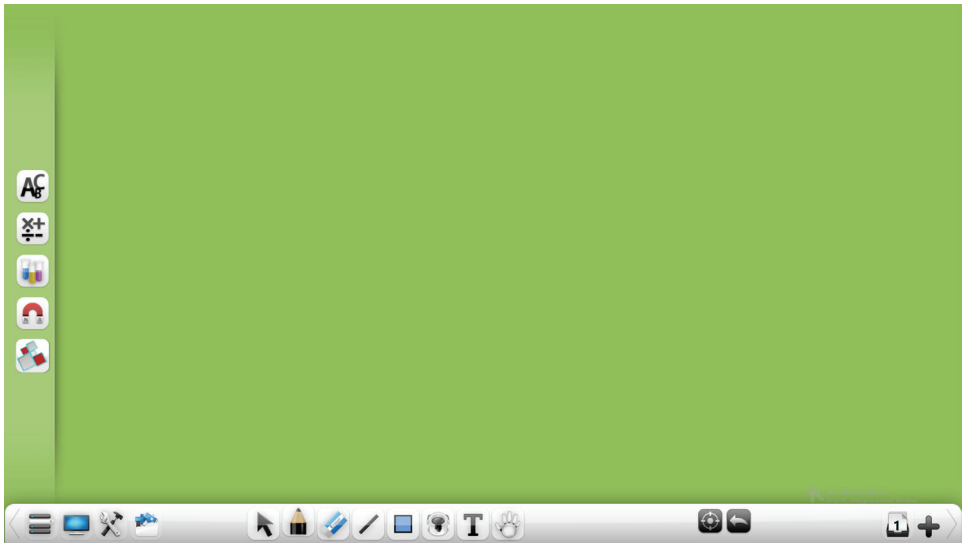
- **Desktop operation**: Click to return to desktop operation mode from notation state.
- **Hard pen**: Click to enter desktop notation state. At this time, you can use hard pen to make notation on the current interface. Click this button, it will pop up the secondary menu, which can select handwriting thickness and color, and select the pen type.



- **Eraser**: Click to erase desktop notation handwriting.
- **Screenshot**: Click to call out screenshot tool.
- **Return**: Click button to return to ViewBoard 2.0.
- **Stretch toolbar**: Click to stretch toolbar.
- **Quick movement**: Click or on the desktop edge left and right, the user can quickly call the desktop toolbar to the desktop edge.

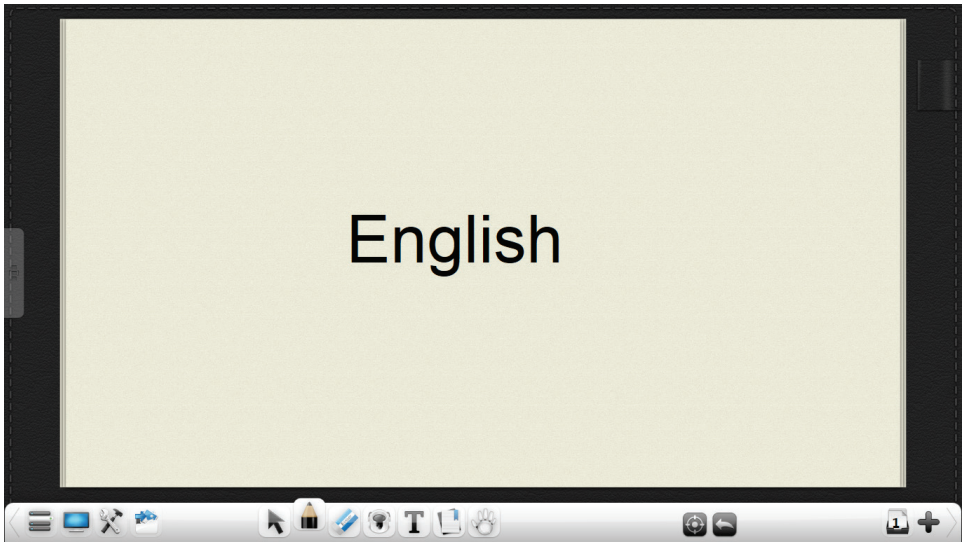
3.2 Subject Mode Function Chemistry

ViewBoard 2.0 sets different subject modes according to the different subjects, including English Mode, Math Mode, Chemistry Mode and Physics Mode.

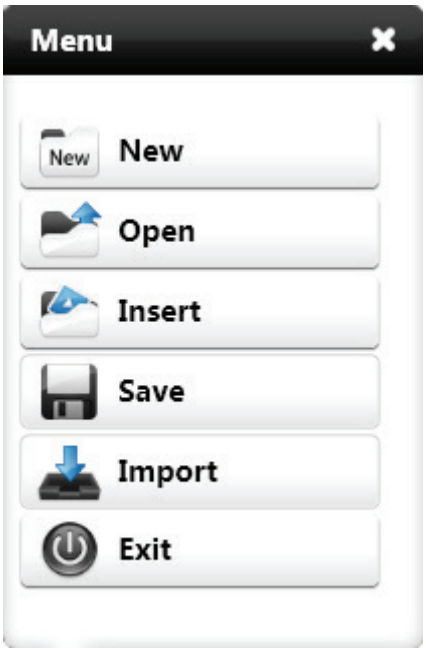


3.2.1 English Mode

Click to enter English mode, with toolbar functions from left to right: Menu, Desktop, Toolbox, Resource Bank, Select, Pen, Erasers, Fill, Text, Template, Cruise, Roaming Map, Thumbnails, New Page.

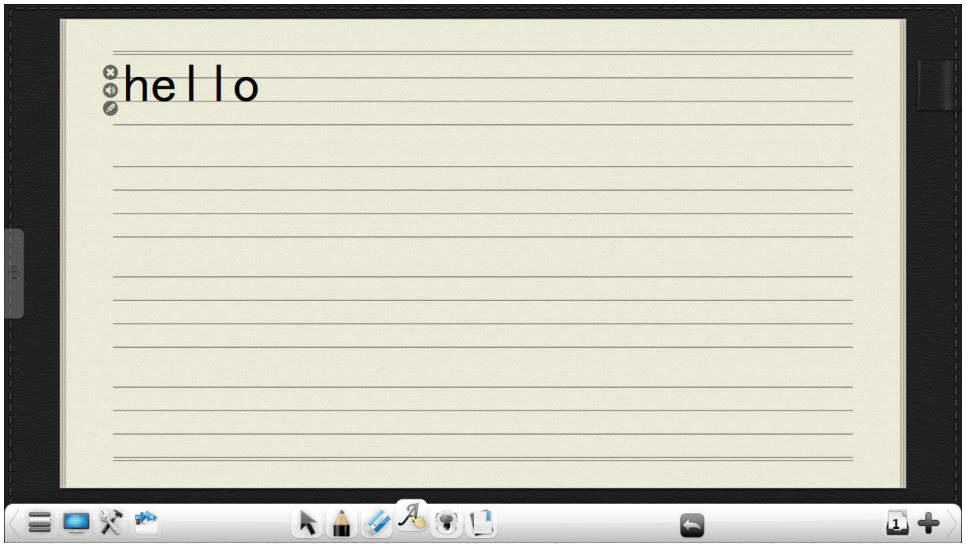


- **Menu**: Click to pop up drop-down menu.



- **Teaching Template**: Click to select different teaching templates.

Four-wire grid used in teaching demonstration of letters, the user can handwrite the letters on the four-wire grid, and under the four-wire grid will pop up the candidate letters, select the required letters and it will identification to the four-wire grid automatically.



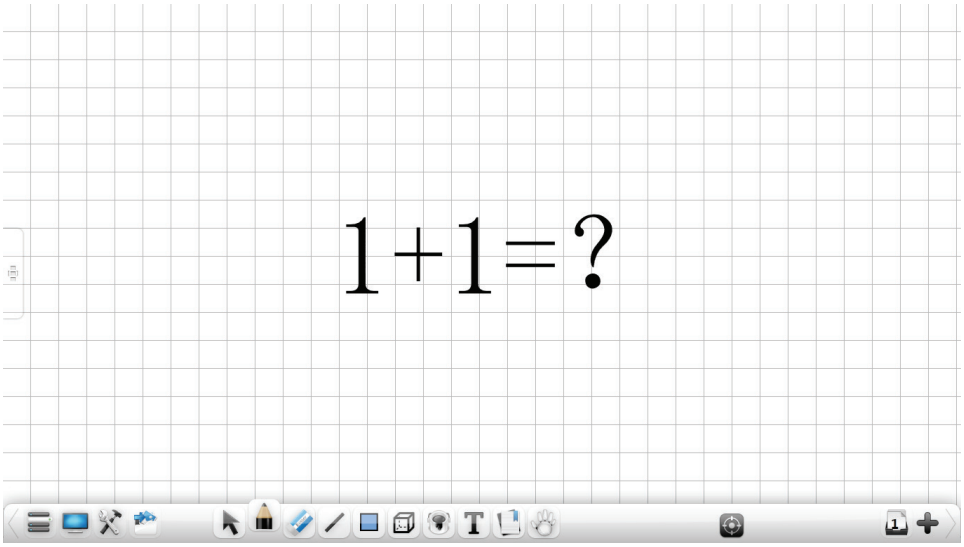
① Click to delete.

② Click to read the words.

③ Click to re-edit the letters.

3.2.2 Math Mode

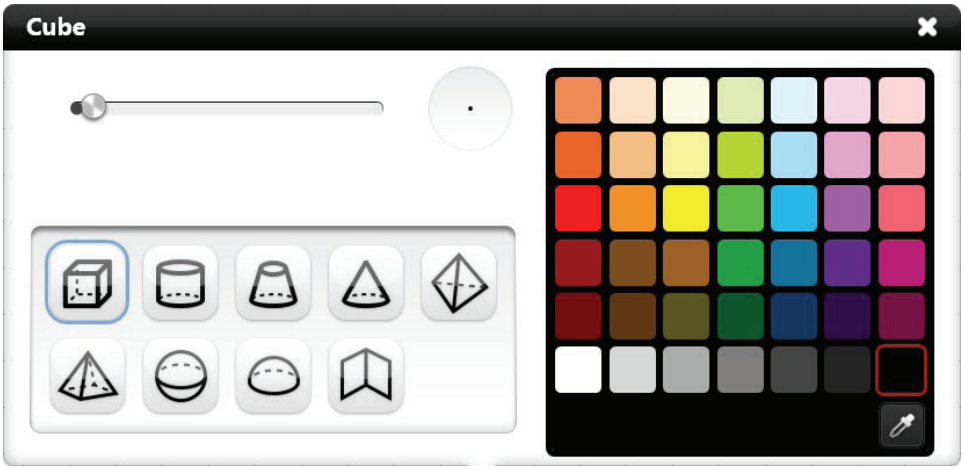
Click button to enter Math mode.



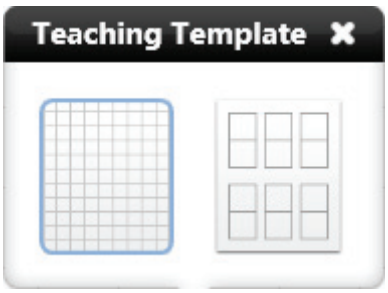
3.2.2.1 Basic Function

In the math mode, toolbar provides the basic math tools, including Menu, Desktop, Toolbox, Resource Bank, Select, Pens, Erasers, Line, Graphic, 3D Graphic, Fill, Text, Template, Cruise, Roaming Map, Thumbnails, New Pages.

- Click to pop up sub-menu. There are 9 kinds of three-dimensional graphics are available for drawing operation, including Cube, Cylinder, RoundTable, Cone, Three Pyramid, Four Pyramid, Sphere, Hemisphere and Dihedral.



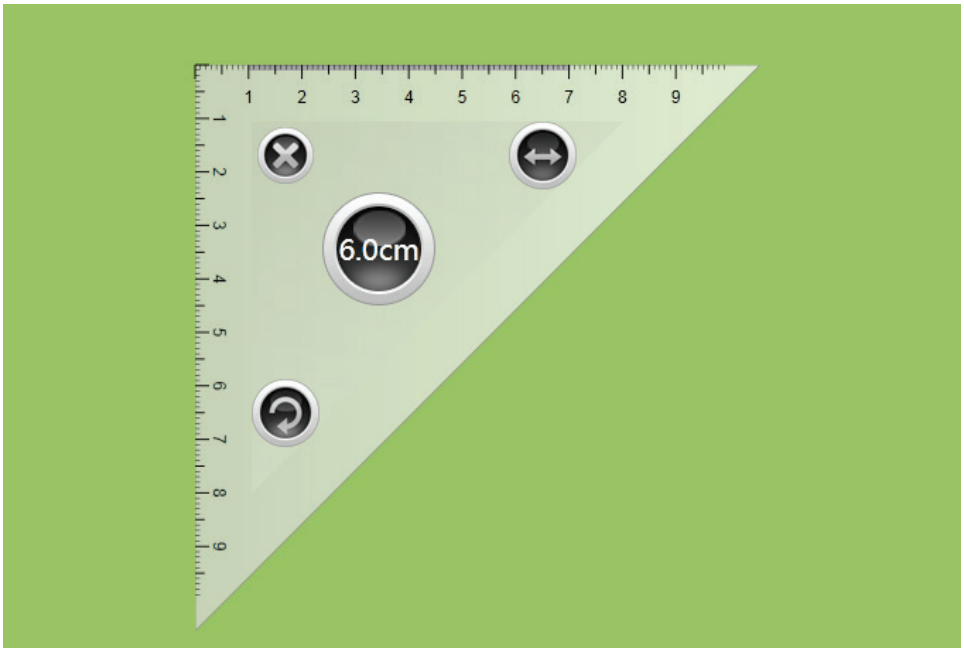
- Click to select different teaching templates such as grid and day-word grid. Day-word grid template is used to facilitate teaching numbers, scores, and etc.



3.2.2.2 Math Tools

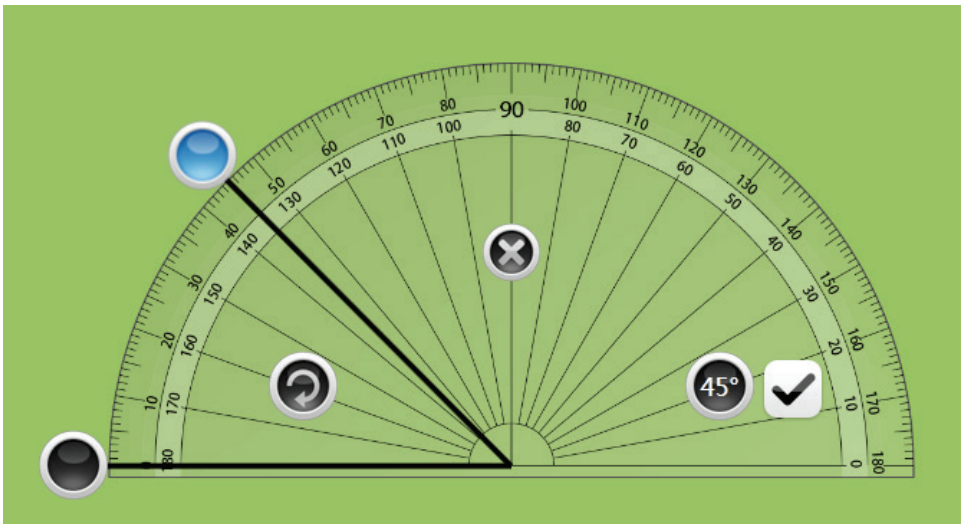
Click to pop up the treasure box, including Setsquare 45°, Setsquare 30°, Ruler, Protractor, Compasses, Function Graph, Coordinate System, Formula Recognition and Calculator.

- Setsquare 45°: Click to open 45°set square tool, which can draw lines, stretch, and rotate. Click scale, and drag along increase or decrease scale direction to draw straight lines. In the middle of the ruler, icon will show segment length of the line drawn.

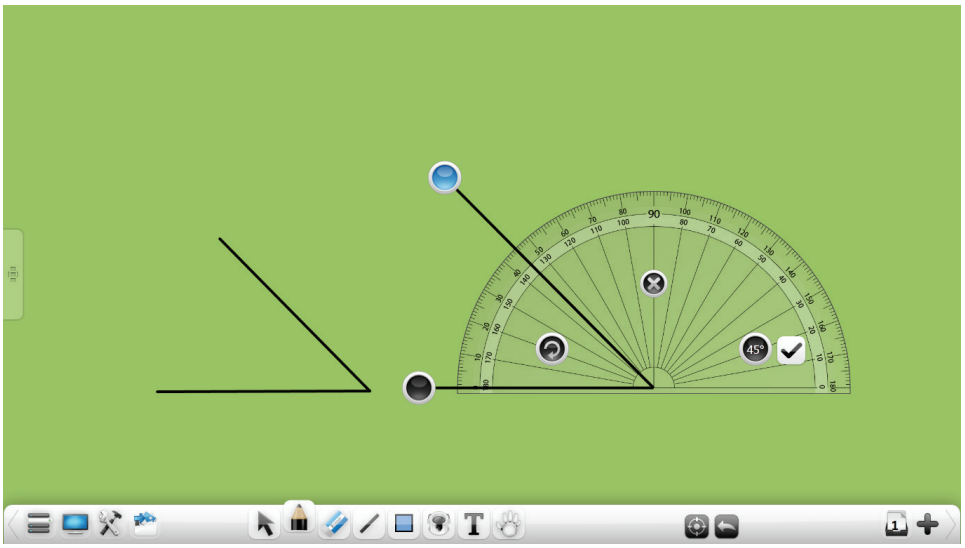


- **Setsquare 30°**: Click to open setsquare 30° tool.
- **Ruler**: Click to open ruler tool.

- **Protractor**: Click to open protractor tool. Pull the two cursors to align with the angle edge, and protractor will automatically display angle.



Pull cursor to a certain point of angle, click confirmation button, to insert cursor angle in the page. If the angle between cursors is 0°, no angle is drawn by default. (Note: When picture the angle, the user can pull the cursor by changing the length of the length of the angle.)



- **Compass**: Click to open compass tool.

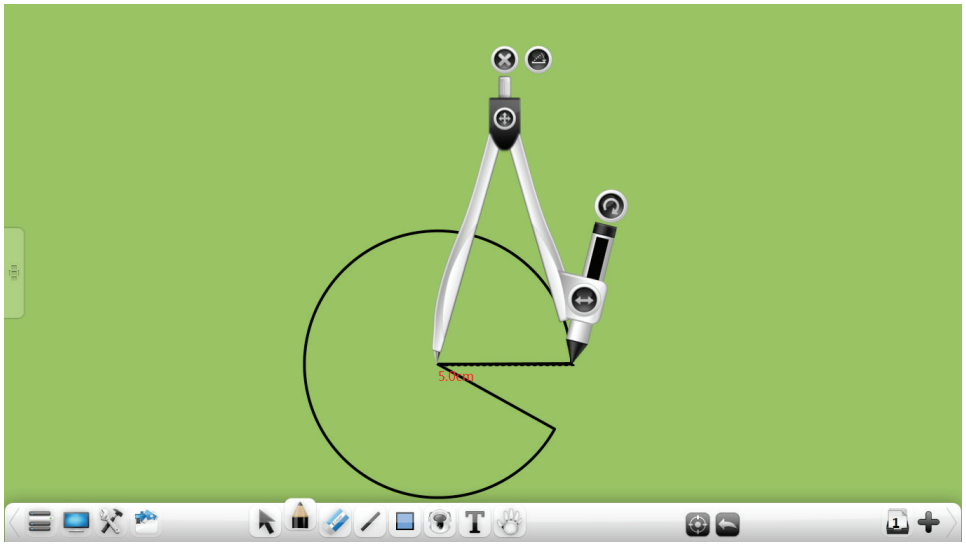
① Click and drag the compass to move the compass.

② Click and rotate the compass to rotating compass direction.

③ Drag the compass feet to adjust radius of circle, also display current radius length at the same time.

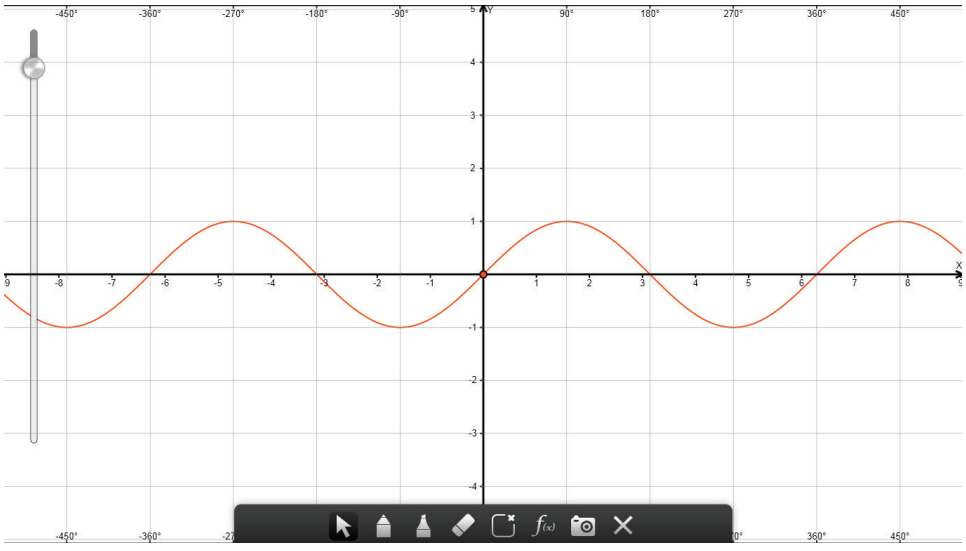
④ Click to switch compasses drawing effects, including arcs and sectors.

⑤ Drag the compass pen to draw circles.



⑥ Click the button to close compass.

- **Function Graph**: Click to open mathematical function graph drawing tool, which can draw mathematical function graph.



① Click to move number axis.

② Click or to make demonstrate notation for current function graph.

③ Click to erase notation handwriting.

④ Click to clear the current page function graph.

⑤ Click to pop up mathematical function editor.

a) Input corresponding function keys and parameters, click to complete function editing, with the corresponding function graph automatically display on number axel.

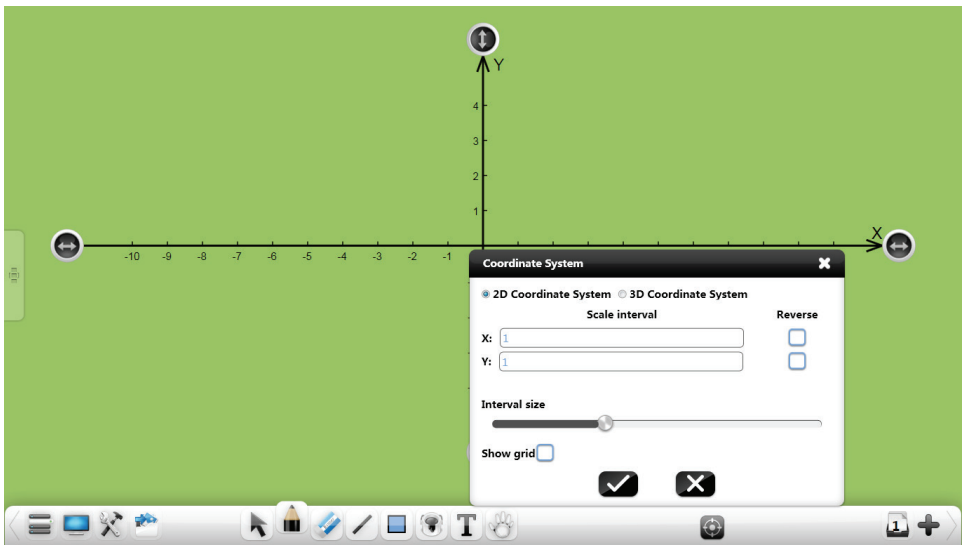
b) Click to insert handwriting recognition formula, with use method similar to mathematical formula recognition.

c) Drag to the left to switch to primary function mode. In this mode, it can choose corresponding simple function directly.

⑥ Click to insert current function graph into the page.

⑦ Click to close the current function graph drawing tools.

- **Coordinate System**: Click to open mathematics tool coordinate system. User can choose plane coordinate system or 3D coordinate system according to need.



① Coordinate dimensions: The user can choose 2D coordinate system or 3D coordinate system according to need.

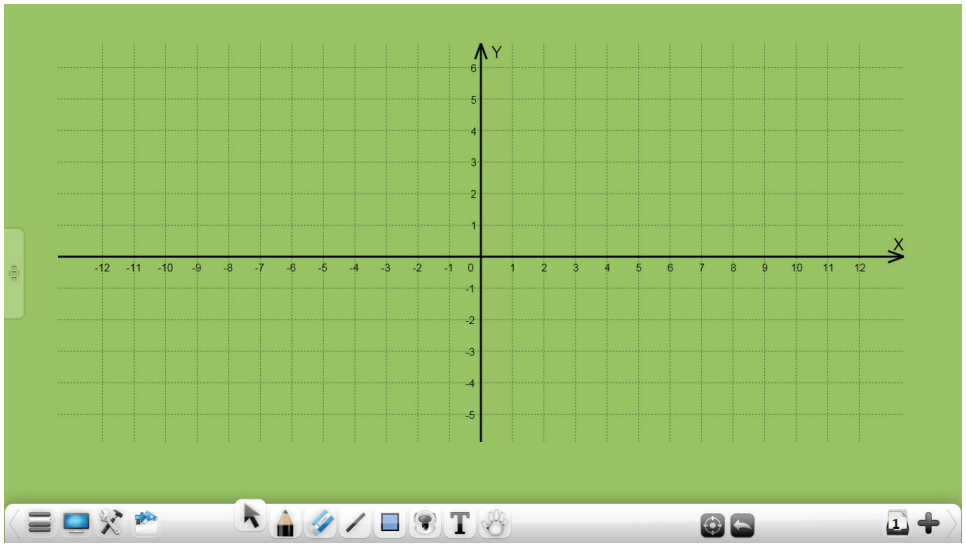
② Scale interval: User can fill scale interval in the x, y, z axis.

③ Coordinate axis direction: Check the Reverse to switch the direction of the coordinate axis.

④ Interval size: Drag the interval size button to change the width of the gap between the scale.

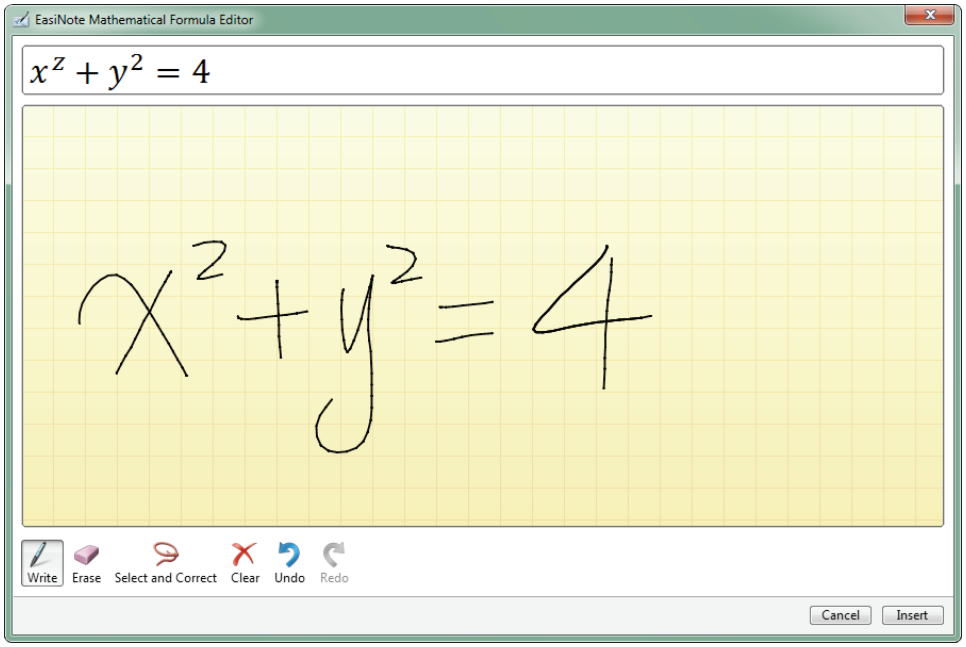
⑤ Show grid: Check to show coordinate grid.

⑥ After setting completion, it can insert mathematical coordinates into whiteboard page.

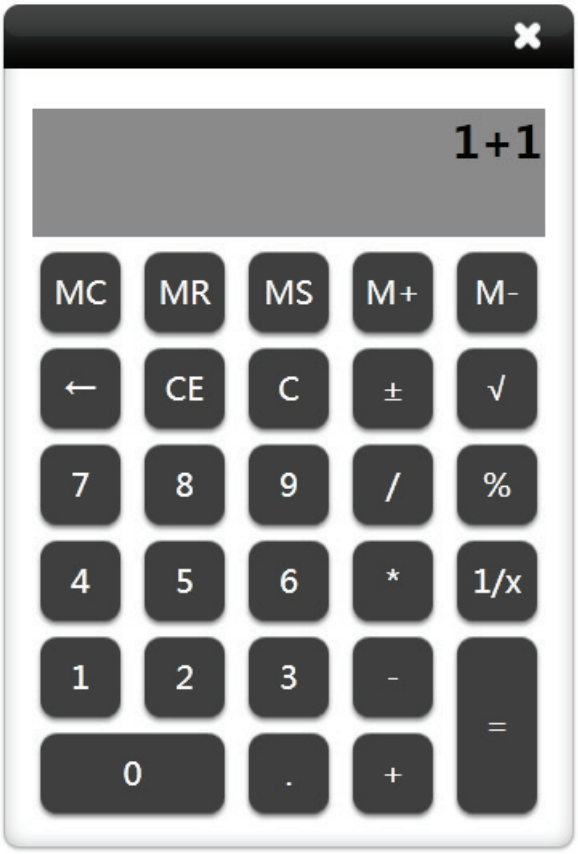


⑦ Click edit button to re-edit this coordinate axis.

- **Formula Recognition**: Click to open mathematical formula recognition tool, which can recognize handwriting mathematical formula. After handwriting required formula, the system will automatically identify formula. If the formula does not conform, it can manually select in cycle to make correction. Click "Insert" button, to insert identified formula into the current page.

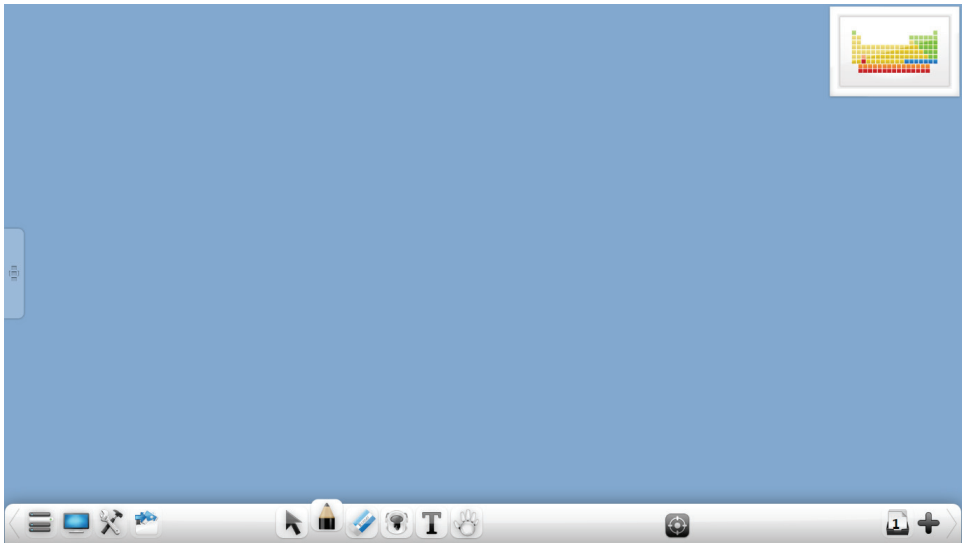


- **Calculator**: Click to open the calculator.



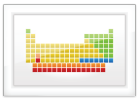
3.2.3 Chemistry Mode

Click to enter Chemistry mode.



3.2.3.1 Basic Function

In the chemistry mode, toolbar provides the basic math tools, including Menu, Desktop, Toolbox, Resource Bank, Select, Pen, Erasers, Fill, Text, Cruise, Roaming Map, Thumbnails, New Page.

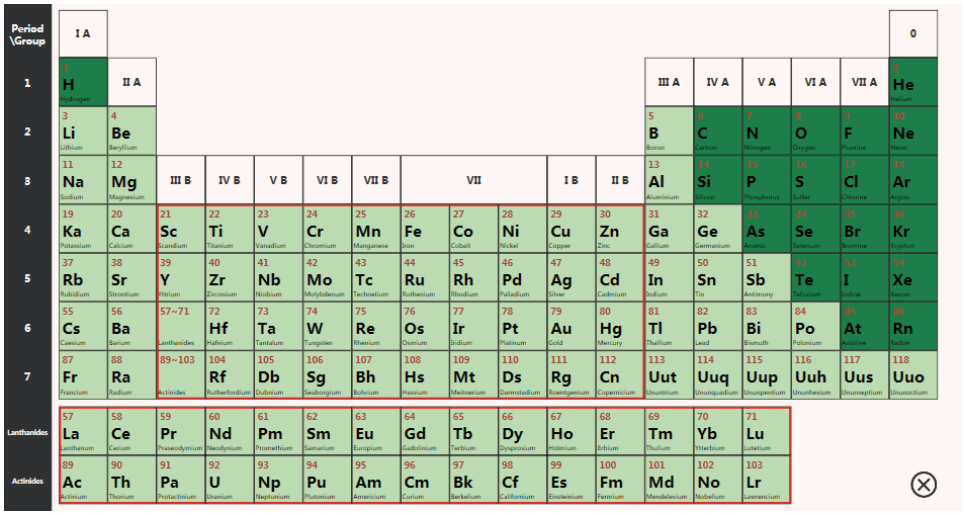
- Click  on the upper right corner to quickly open the periodic table.

3.2.3.2 Chemistry Tools

Click to pop up the treasure box. Click the disciplines and select the chemistry to pop up the interface of chemistry tools, including Periodic Table, Atomic structure diagram and chemistry lab instruments.

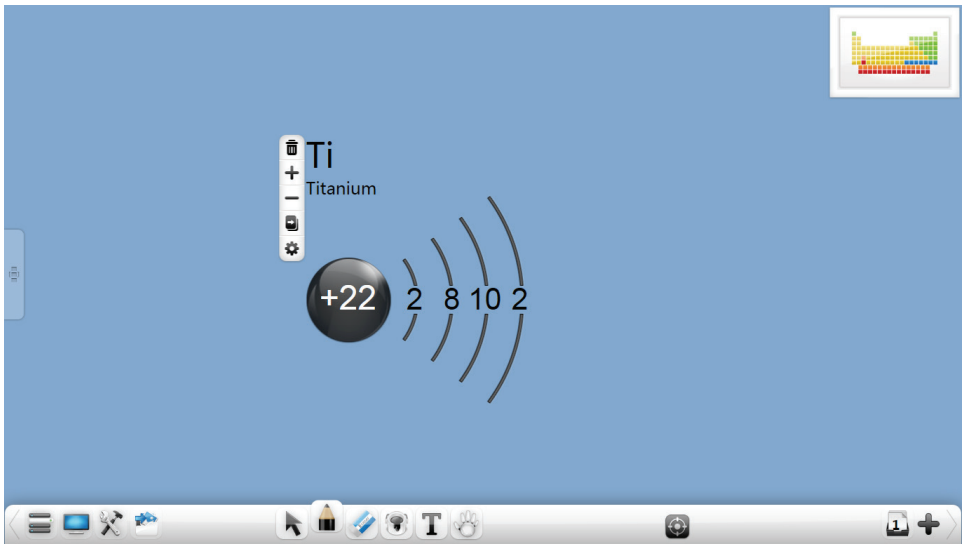
(1) Periodic Table

Click to open the periodic table. Click “×” to close the table. In the multi-point touch screen, the user can zoom and move it.



(2) Atomic structure diagram

Click to open atomic structure diagram, the default is Ti.



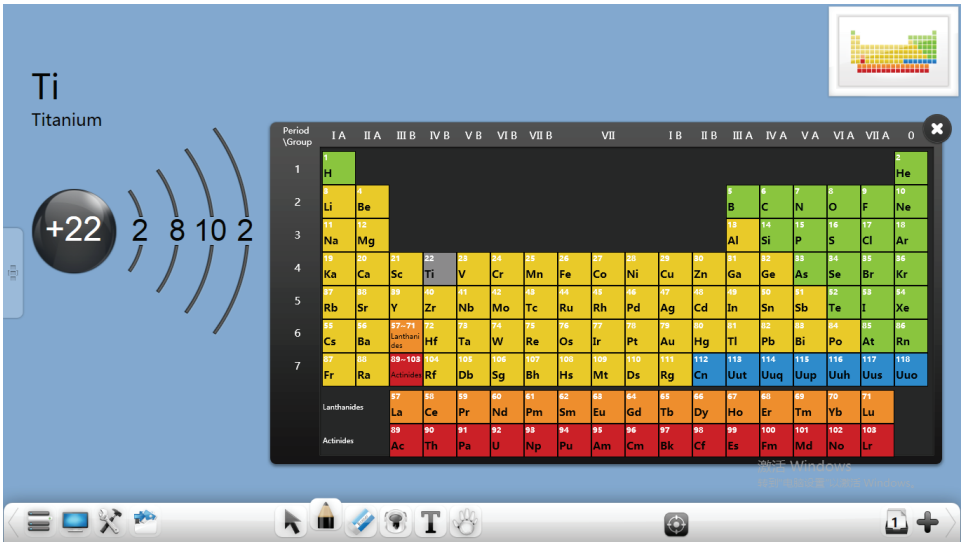
① Click to delete atomic structure diagram.

② Click to view the next chemistry atomic.

③ Click to view the previous chemistry atomic.

④ Click to dragging cloning this atomic.

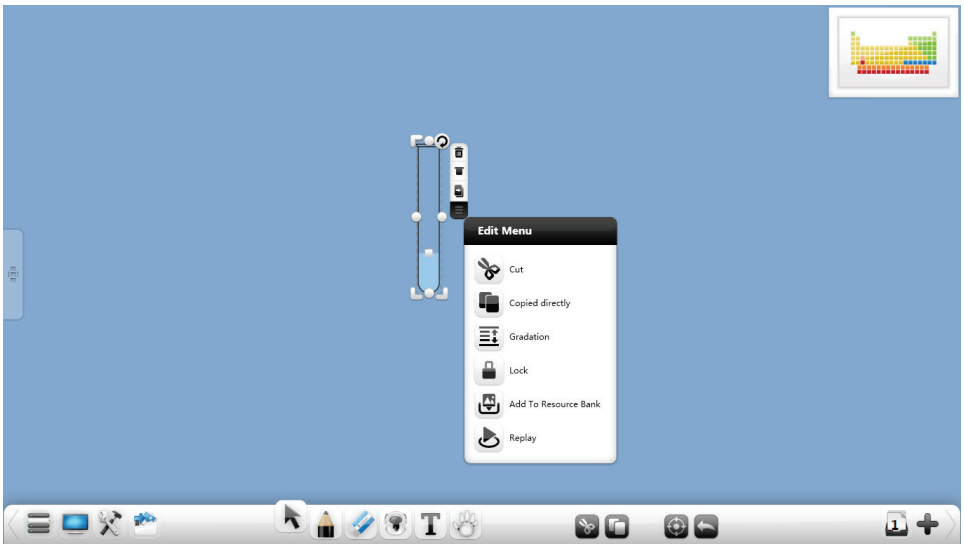
⑤ Click to open the periodic table to select the element. When user selects the element, the atomic structure diagram will show the structure of this atomic.



(3) Chemistry lab instrument

In the chemistry tools, user can drag the chemistry lab instrument and combination them.

① Liquid level adjustment container. It includes Test tube, Beaker, Conical flask, Flask, Distillation flask, Sink, Kipp generator, Separating funnel, Acid burette, Alkaline burette, U-tube, Thermometer.

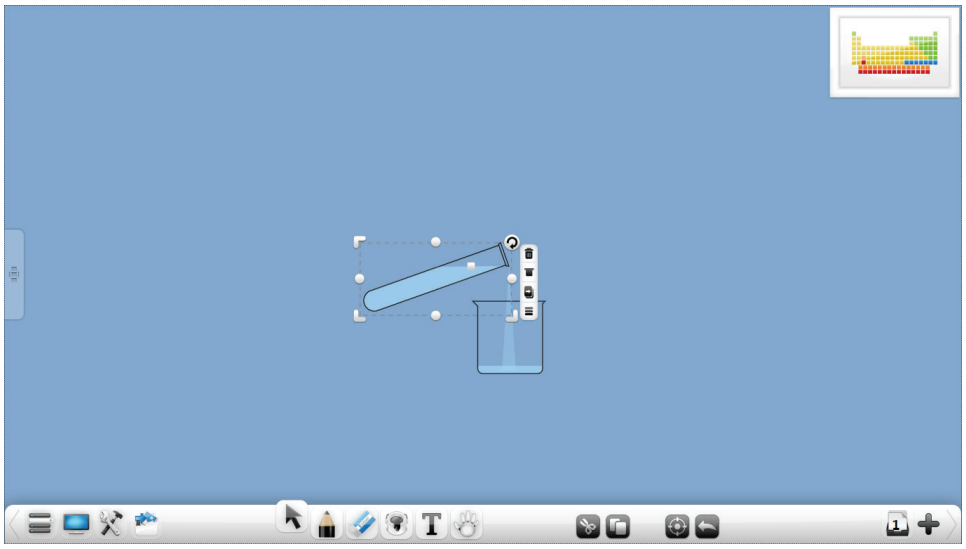


a) The operation of container as Moving, Scaling, Rotating, Deleting, Dragging cloning, Cut, Copied directly, Gradation, Combination, Lock, Add To Resource Bank, Replay.

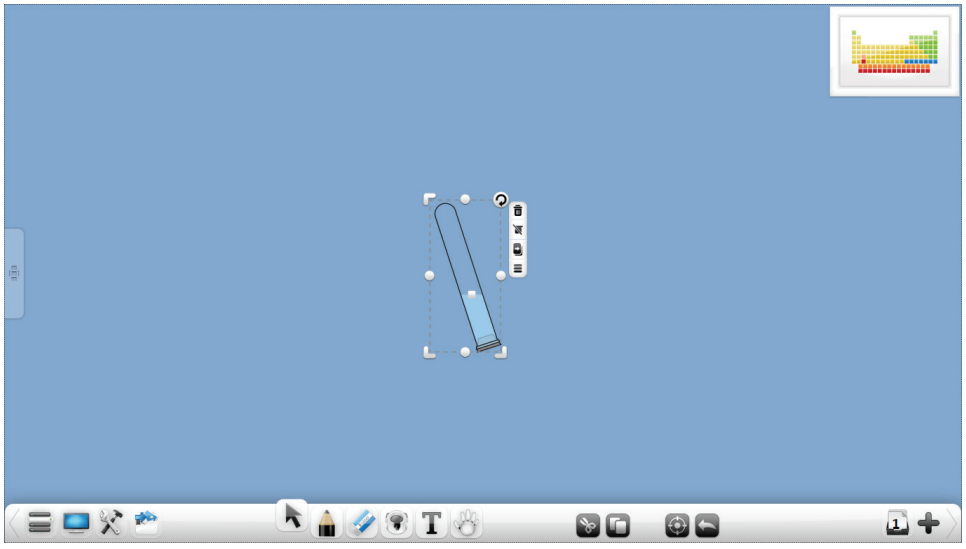
b) **Container zoom**: Click and drag the edge of the container up and down buttons to change the length and diameter of the container.

c) **Liquid level**: Click and drag the button on the liquid surface, moving it up and down to change the liquid level.

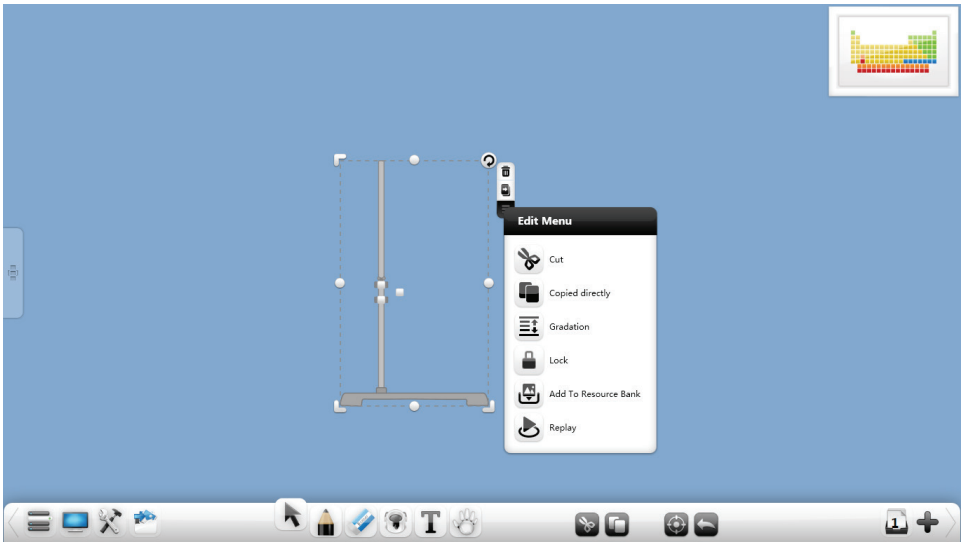
d) **Rotation**: Click to rotate, the liquid can simulate the liquid flow actual, it rotate along with the container. When the liquid level is higher than the inclination of the container along the tube, the liquid will flow out. At the same time, if there is another container below, the liquid in the container can be poured into this container



e) **Cork**: Click to cover the cork. At this time, rotating container and the liquid won't flow out.

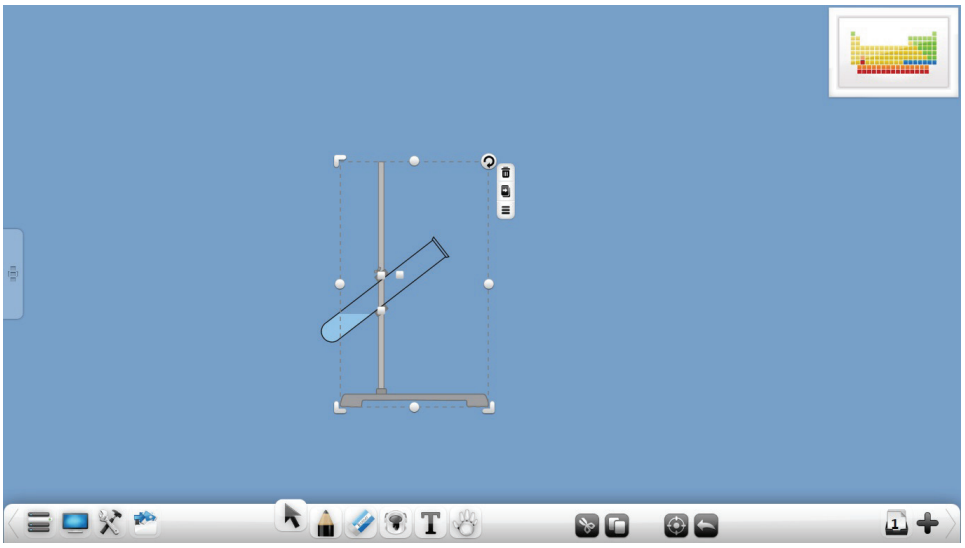


② **Instrument stand**: It includes Test tube rack and Beaker rack.



a) **Tube clip width**: Click the button on the test tube rack to adjust the width of tube clip up and down.

b) **Tube angle**: Click the button on the test tube clip right to adjust the angle of tube clip and move up and down.



c) **Beaker rack adjust**: Click the button to adjust the height of the beaker pad and the beaker clip up and down.

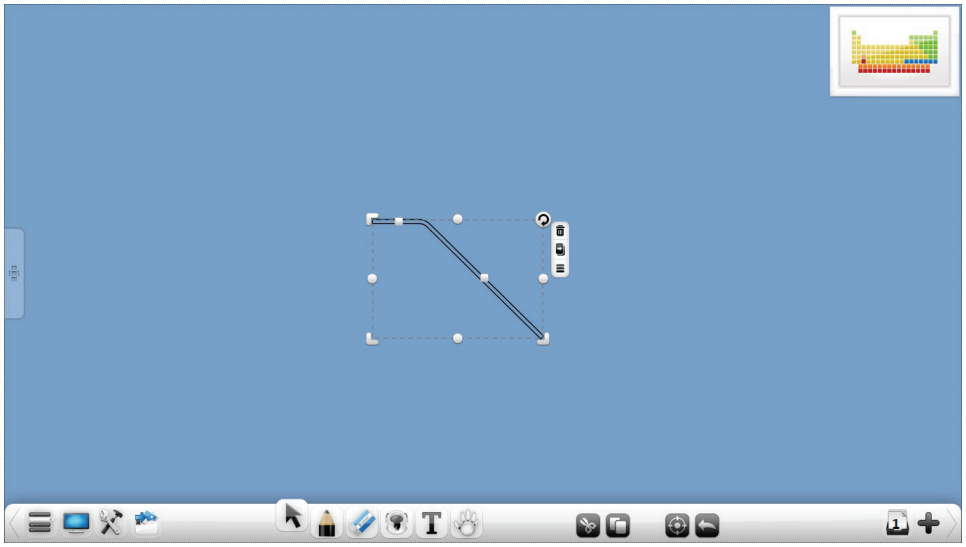
③ **Adjustable status instrument**: Alcohol burner, Glass tube, Gas collecting bottle are the adjustable status instrument.

a) **Alcohol**: Click to light the alcohol.

b) Glass tube: Click to add the cork to both ends of the glass tube.

c) Gas collecting bottle: Click button to cover with frosted glass.

④ **Connecting conduct**: Click and drag the button on the connecting conduct to adjust the length and angle.

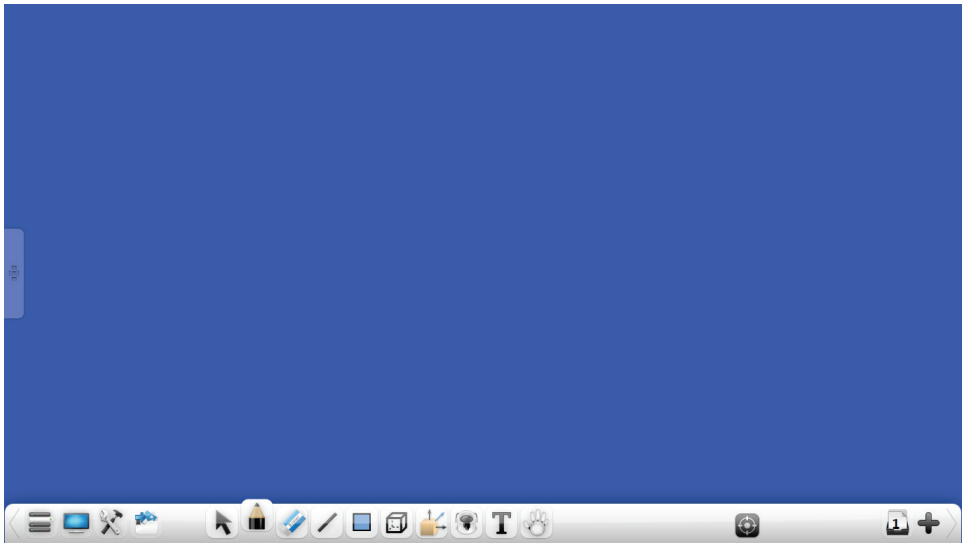


⑤ **Scales**: Click and drag the button to adjust the balance of the scale.

⑥ **Other**: The operation of container as Wood blocks, Vacuum connecting tube, Drying tube, Condenser tube, Spherical funnel, Funnel, Tripod, Rubber tube, Weights are the same as operation.

3.2.4 Physics Mode

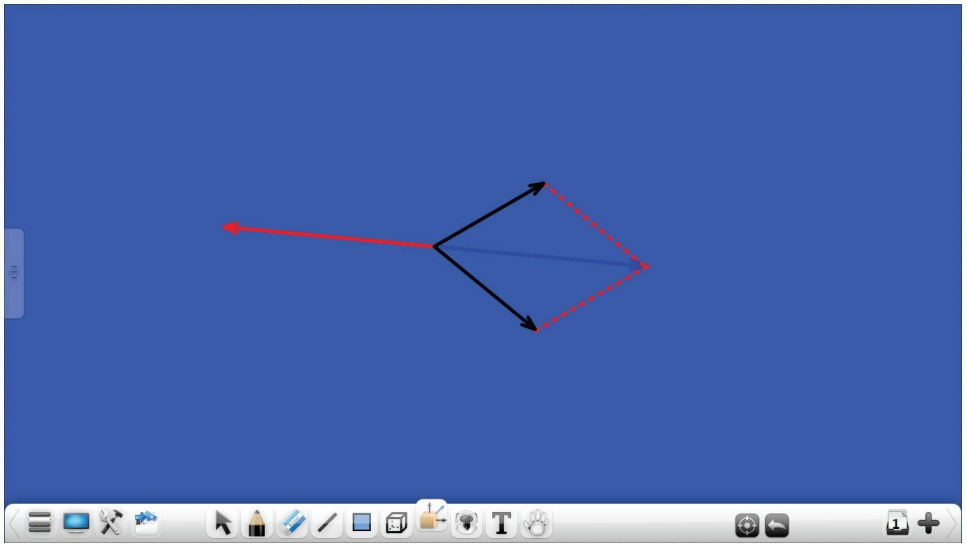
Click to enter Physics mode.



3.2.4.1 Basic Function

In the physics mode, toolbar provides the basic math tools, including Menu, Desktop, Toolbox, Resource Bank, Select, Pen, Erasers, Line, Graphic, 3D Graphic, Physical Force, Fill, Text, Cruise, Roaming Map, Thumbnails, New Page.

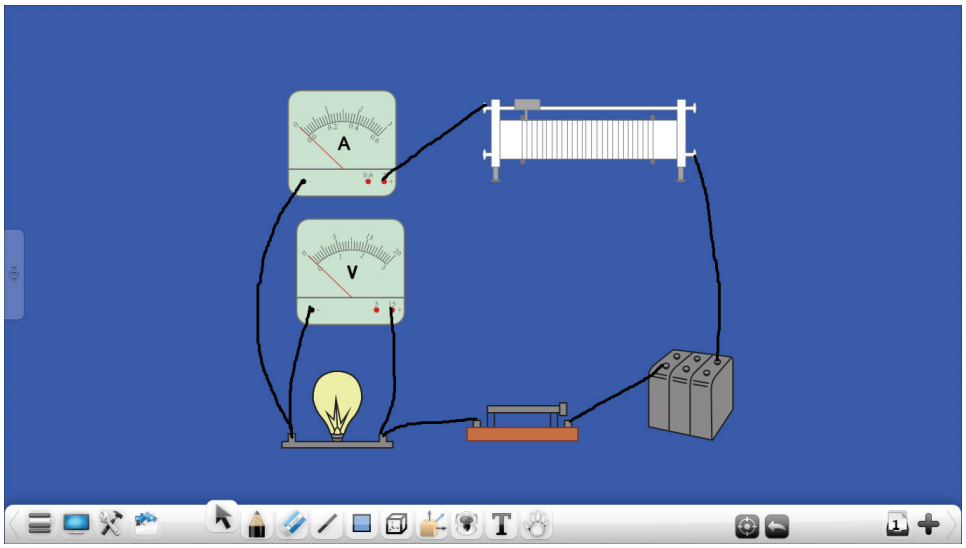
- Click to enter physical force mode, which can draw lines to constitute physical component forces on white board directly. When two or more component forces are drawn, it will automatically generate resultant force.



3.2.4.2 Physics Tools

Click to pop up the treasure box. Click the disciplines and select the physics to pop up the interface of physics tools, including electricity.

Electricity: Electricity instrument including Power, Ammeter, Voltmeter, Slide rheostat, Bulb, Power switch.



① Power instrument can be called in the circuit demonstration experiments.
② Ammeter, voltmeter can be connected in the circuit, while adjustable pointer.
③ Slide rheostat can adjust the resistance size manually.
④ Choose the light bulb, and click button to open the light bulb.
⑤ Choose the power switch, and click button to close the power switch.

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